

Document Number	Title	Most Recent Publication Date	Scope	Sector 1	Sector 2	Sector 3	Sector 4	Contents
ARINC 654	ENVIRONMENTAL DESIGN GUIDELINES FOR INTEGRATED MODULAR AVIONICS PACKAGING AND INTERFACES	9/12/1994	Refers electromagnetic compatibility, shielding, thermal management, vibration and shock of IMA systems. Emphasis is placed both on the design of IMA components and their electrical, optical and electro-mechanical interfaces.	Transportation Systems				1.0 INTRODUCTION 1.1 Objectives 1.2 Scope 1.3 References 2.0 VIBRATION AND SHOCK 2.1 Introduction 2.2 Vibration and Shock Isolation 3.0 THERMAL CONSIDERATIONS 3.1 Thermal Management 3.1.1 Electronic System Thermal Design Objectives 3.1.2 Design Condition Definitions 3.1.3 Air Flow 3.1.4 Fully Enclosed and Flow-Through Cooling 3.1.5 Thermal Design Conditions 3.1.6 Cooling Hole Sizes - Limit Cases 3.2 Electronic Parts Application 3.3 Ambient Temperatures 3.4 Equipment Sidewall Temperature 3.5 LRM Thermal Appraisal 3.6 Thermal Interface Information 3.7 Materials for Thermal Design 4.0 DESIGN LIFE 4.1 Operational Design Life 4.2 Failure Modes
ARINC 666 ITEM 7.0	Encryption and Authentication	2002		Information Technology				
ATIS 0300100	IP NETWORK DISASTER RECOVERY FRAMEWORK	1/12/2009	Pertains to enumerate potential proactive or automatic policy-driven network traffic management actions that should be performed prior to, during, and immediately following disaster conditions.	Information Technology	Emergency Services			

ATIS 0300202	Internetwork Operations Guidelines for Network Management of the Public Telecommunications Networks under Disaster Conditions	1/11/2009	Describes the cooperative network management actions (that may be) required of interconnected network operators during emergency conditions associated with disasters that threaten life or property and case congestion in the public telecommunications networks.	Information Technology	Emergency Services	communications		
ATIS 0300202A	SUPPLEMENT TO ATIS T1.202, INTERNETWORK OPERATIONS - GUIDELINES FOR NETWORK MANAGEMENT OF THE PUBLIC TELECOMMUNICATIONS NETWORKS UNDER DISASTER CONDITIONS, TO CLARIFY CALL PRECEDENCE STRATEGY IN CLAUSE 5.3	1/8/2005	This supplement replaces clause 5.3 of T1.202-2004.	Information Technology	Emergency Services	communications		
ATIS 0300211	Information Interchange - Structure and Coded Representation of National Security and Emergency Preparedness (NS/EP) Telecommunications Service Priority (TSP) Codes for the North Telecommunications System	5/10/2012	Defines the specifications, characteristics, and values of the National Security/Emergency Preparedness (NS/EP) Telecommunications Service Priority code used by the NS/EP Telecommunications Service Priority System (TSP) and telecommunication service vendors providing NS/EP services.	Information Technology	Emergency Services	communications		<ul style="list-style-type: none"> 1 SCOPE & PURPOSE 2 NORMATIVE REFERENCES 3 DEFINITIONS, ABBREVIATIONS, & ACRONYMS 4 GENERAL 5 DATA ELEMENTS 6 CODE SET VALUES 7 FORMAT STRUCTURES 8 CODE SET MAINTENANCE A ROLE OF TSP IN AN NGN/IP ENVIRONMENT

ATIS 0300211A	INFORMATION INTERCHANGE - STRUCTURE AND CODED REPRESENTATION OF NATIONAL SECURITY AND EMERGENCY PREPAREDNESS (NS/EP) TELECOMMUNICATIONS SERVICE PRIORITY (TSP) CODES FOR THE NORTH AMERICAN TELECOMMUNICATIONS SYSTEM	1/5/2007		Information Technology	Emergency Services	communications		
ATIS 0500002	Emergency Services Messaging Interface (ESMI)	2008(R2013)	Describes protocols and message sets for use in the Emergency Services Messaging Interface.	Information Technology	Emergency Services	communications		
ATIS 0500006	Emergency Information Services Interfaces (EISI) ALI Service	2008(R2013)	Describes protocols and message sets for used in the ESNet in order to communicate between Entities Consuming Emergency Services (ECES) and Entities Providing Emergency Services (EPES).	Information Technology	Emergency Services	communications		
ATIS 0500007	Emergency Information Services Interface (EISI) Implemented with Web Services	2008(R2013)	Covers standards for an Emergency Information Services Interface (EISI) in the Emergency Services Network (ESNet). It specifies protocols and message sets for use in the ESNet in order to communicate between Entities Consuming Emergency Services (ECES) and Entities Providing Emergency Services (EPES).	Information Technology	Emergency Services	communications		

ATIS 0600317	Uniform Language for Accessing Power Plants Human-Machine Language	1993(R2013)	Defines a command language that permits a uniform method of communicating with power systems in a telecommunications environment. This standard specifically addresses command language elements necessary for human-to-machine communication with systems that monitor and control power equipment.	Information Technology	Energy	communications		
ATIS-0600334	Electrical Protection of Communications Towers and Associated Structures	1/5/2013	Specifies the minimum electrical protection, grounding, and bonding criteria necessary to mitigate the disruptive and damaging effects of lightning.	Energy	Communications			
ATIS-0700010	CMAS via EPS Public Warning System Specification	1/1/2013	Specifies the use of the Evolved Packet System (EPS) Public Warning System (PWS) for the broadcast of CMAS messages and includes the mapping of CMAS application level messages to the Cell Broadcast Center (CBC) message structure as used within the EPS.	Communications	Emergency Services	Societal		

ATIS-0700015	IMPLEMENTATION OF 3GPP COMMON IMS EMERGENCY PROCEDURES FOR IMS ORIGINATION AND ESINET/LEGACY SELECTIVE ROUTER TERMINATION	1/3/2014	Defines North American emergency call handling procedures in an IMS-based origination network (including steps taken by the originating device and network elements) and routing of such calls to a terminating ESInet or to a legacy Selective Router.	Emergency Services	Communications	Information Technology		
ATIS-1000650	ISDN - USAGE OF THE CAUSE INFORMATION ELEMENT IN DIGITAL SUBSCRIBER SIGNALING SYSTEM NUMBER 1 (DSS1)	1995(R2010)	Describes the usage, format, and encoding of the cause information element within the context of the Digital Subscriber Signaling System Number 1 (DSS1) of an Integrated Services Digital Network (ISDN).	Information Technology				
AAMA 510	VOLUNTARY GUIDE SPECIFICATION FOR BLAST HAZARD MITIGATION FOR FENESTRATION SYSTEMS		Establishes system performance classifications that can be expected to reduce the hazards resulting from a prescribed blast load.	Commercial Facilities	Government Facilities	Residential Facilities		
AAMA 512	VOLUNTARY SPECIFICATIONS FOR TORNADO HAZARD MITIGATING FENESTRATION PRODUCTS		Applies for existing test methods and other procedures to qualify windows and other glazed fenestration products tornado hazard mitigation. Also presents a system for rating the ability of windows to withstand impact, pressure cycling, and water penetration generally associated with tornado conditions.	Commercial Facilities	Government Facilities	Residential Facilities		

AAMA 907	VOLUNTARY SPECIFICATION FOR CORROSION RESISTANT COATINGS ON CARBON STEEL COMPONENTS		Includes requirements for corrosion resistant coatings on carbon steels used for hardware components in window, door, and skylight applications.	Commercial Facilities	Government Facilities	Transportation Systems		
AAMA AMC-1	ALUMINUM: THE TOTAL SOLUTION FOR SUSTAINABLE, STRONG AND EFFICIENT COMMERCIAL BUILDING DESIGN		Defines why aluminum has been the material of choice in commercial construction for many years, specifically focusing on: aluminums freedom of design, finishes (anodized and liquid and powder coating, thermal barriers (polyurethane systems and polyamide), sustainability and recyclability, cost advantages and cooling costs, and strength to weight ratio.	Commercial Facilities				
AAMA 506	Voluntary Specifications for Impact and Cycle Testing of Fenestration Products	2011	Designed to provide a system for rating the ability of windows, doors, skylights and sliding glass doors to withstand impact and pressure cycling generally associated with hurricane conditions.	Commercial Facilities	Government Facilities	Residential Facilities		

AAMA 512	Voluntary Specifications for Tornado Hazard Mitigating Fenestration Products	2011	This specification uses existing test methods and other procedures to qualify windows and other glazed fenestration products tornado hazard mitigation. This specification provides a system for rating the ability of windows to withstand impact, pressure cycling, and water penetration generally associated with tornado conditions.	Commercial Facilities	Government Facilities	Residential Facilities		
AAMA 520	Voluntary Specification for Rating the Severe Wind-Driven Rain Resistance of Windows, Doors and Unit Skylights	2012	This voluntary specification provides an optional rating of the ability of fenestration products to resist severe wind-driven rain. This voluntary specification is based on a rapidly pulsed pressure differential method, recognizing that conditions encountered during tropical storms, hurricanes, or severe thunder storms are not static. In addition, the procedures and equipment required to perform the specified tests are provided	Commercial Facilities	Government Facilities	Residential Facilities		

AASHTO AAB 1	ABOVE AND BEYOND	1/1/2008	Includes both people and communities - reaching out across sectors of society and helping to ensure the health of our society, our economy, and our environment.	Societal				<p>Introduction Planning and Designing Transportation to Fit the Community Integrating Transportation and Land Use to Promote Sustainable Communities Enhancing Our Quality of Life Promoting Walking and Biking On the Road to Cleaner Air Water Quality and Wetlands - Successful Legacies Preserving Wildlife and Ecosystems for Future Generations Building Bridges to America's Past Recycling - Transportation Agencies "Go Green" Beautifying America's Roadsides Sound Solutions Keep Down the Noise Taking the Scenic Route to America's Treasures References</p>
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AASHTO BSG 1

BRIDGE SECURITY
GUIDELINES

Defines a specific bridge
should be conducted during
the planning of new bridges,
rehabilitation of existing
bridges, or both.

Transportation Systems

AASHTO EXECUTIVE COMMITTEE
HIGHWAYS SUBCOMMITTEE ON
BRIDGES AND STRUCTURES
FOREWORD ACKNOWLEDGMENTS
SECTION 1 - DESIGN AND LOCATION
FEATURES SECTION 2 - DESIGN AND
LOCATION FEATURES SECTION 3 -
STRUCTURAL ANALYSIS OF BLAST
EFFECTS SECTION 4 - PROVISIONS
FOR BLAST DESIGN APPENDICES
APPENDIX A - DESIGN EXAMPLES:
INTRODUCTION APPENDIX B -
DESIGN EXAMPLE 1: REINFORCED
CONCRETE BRIDGE COLUMN
IN DESIGN CATEGORY C APPENDIX C
- DESIGN EXAMPLE 2: CONCRETE
BRIDGE COLUMN FOR A
LARGER THREAT WITHIN DESIGN
CATEGORY C APPENDIX D - DESIGN
EXAMPLE 3: CHANGES REQUIRED
FOR A COLUMN DESIGN
CATEGORY B APPENDIX E - DESIGN
EXAMPLE 4: AASHTO LRFD
APPLICATION FOR DESIGN
CATEGORY A REFERENCES

AASHTO CPMS 1	COMPARATIVE PERFORMANCE MEASUREMENT: SAFETY		Introduces results of the third in a series of comparative performance measurement efforts sponsored by the AASHTO Standing Committee on Quality, Performance Measurement and Benchmarking Subcommittee. The purpose of these efforts is to identify states that have achieved exemplary performance, find out what practices have contributed to their success, and document these practices for the benefit of other states.	Transportation Systems				1. Executive Summary 2. Introduction 3. Identification of States with Notable Performance 4. Identification of Effective Practices 5. Improving Future Comparative Performance Measurement For Safety References Appendix A - Interview Guide for Identification of best Practices Appendix B - State Interview Summaries
AASHTO FHD-1	A GUIDE FOR ACHIEVING FLEXIBILITY IN HIGHWAY DESIGN	1/5/2004	Gives an overview of the entire highway project development process. Also it includes a discussion of the major stages of a highway project, background on the major inputs to highway design criteria and design, differences in types of projects, and the design decision-making process.	Transportation Systems				Acknowledgments Introduction 1. The Project Development Process 2. Context-Sensitive Solutions through Community Involvement 3. Highway Geometric Elements- Design and Safety Considerations For Context-Sensitive Project Solutions 4. Legal Liability and Highway Design Appendix A - U.S. Federal Regulations on Environmental Protection Affecting Highway Design

AASHTO GSH 9	GUIDE SPECIFICATIONS FOR HIGHWAY CONSTRUCTION		Describes the implied subject of such a sentence is typically the Contractor, although in certain situations, the subject may also be a vendor, fabricator, or manufacturer engaged by the Contractor to supply material, products, or equipment for use on the project.	Transportation Systems				<p>PREFACE DIVISION 100 GENERAL PROVISIONS SECTION 101 GENERAL INFORMATION, DEFINITIONS, AND TERMS SECTION 102 BIDDING REQUIREMENTS AND CONDITIONS SECTION 103 CONTRACT AWARD AND EXECUTION SECTION 104 SCOPE OF WORK SECTION 105 CONTROLLING WORK SECTION 106 CONTROLLING MATERIAL SECTION 107 LEGAL RELATIONS AND RESPONSIBILITY TO THE PUBLIC SECTION 108 PROSECUTION AND PROGRESS SECTION 109 MEASUREMENT AND PAYMENT DIVISION 200 EARTHWORK SECTION 201 CLEARING AND GRUBBING SECTION 202 REMOVAL OF STRUCTURES AND OBSTRUCTIONS SECTION 203 EXCAVATION AND EMBANKMENT SECTION 204 SUBGRADE PREPARATION SECTION 205 RESERVED SECTION 206 EXCAVATION AND BACKFILL FOR CONDUITS AND MINOR STRUCTURES SECTION 207 EROSION AND SEDIMENT CONTROL</p>
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AASHTO GSW 4	GUIDE FOR VEHICLE WEIGHTS AND DIMENSIONS		Provides information for states and for commercial carriers that can be used in connection with vehicle size and weight issues and permit practices directed towards improving safety, managing highway and bridge infrastructure, and streamlining regulatory processes. Contains definitions of commonly-used terms, descriptions of vehicles in regular operation, dimension and weight limits, and an overview of the permitting process for overweight, oversize vehicles. Also provides an explanation of the rules and processes related to the movement of military vehicles.	Transportation Systems	Defense Industrial Base			Foreword Chapter 1. Definitions Chapter 2. Vehicles in Regular Operation Chapter 3. Issuance of Truck Permits and Restrictions Chapter 4. National Defense Appendix
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AASHTO GVCB 2	GUIDE SPECIFICATIONS AND COMMENTARY FOR VESSEL COLLISION DESIGN OF HIGHWAY BRIDGES		Contains the current LRFD Bridge Design methodology; clarify some of the risk procedure elements; make minor modifications and corrections; and to discuss, and incorporate where deemed necessary, results from barge and ship collision research conducted since the original vessel collision publication.	Transportation Systems				FOREWORD SECTION 1 INTRODUCTION 1.1 PURPOSE 1.2 BACKGROUND 1.3 BASIC CONCEPTS 1.4 DESIGN ANALYSIS 1.5 FLOW CHARTS REFERENCES SECTION 2 SYMBOLS AND DEFINITIONS Design Provisions SECTION 3 GENERAL PROVISIONS 3.1 GENERAL 3.2 APPLICABILITY OF SPECIFICATION 3.3 OPERATIONAL CLASSIFICATION 3.4 DATA COLLECTION 3.5 VESSEL TYPE AND CHARACTERISTICS 3.6 DESIGN VESSEL 3.7 DESIGN IMPACT SPEED 3.8 VESSEL COLLISION ENERGY 3.9 SHIP COLLISION FORCE ON PIER 3.10 SHIP BOW DAMAGE DEPTH 3.11 SHIP COLLISION FORCE ON SUPERSTRUCTURE 3.12 BARGE COLLISION FORCE ON PIER 3.13 BARGE BOW DAMAGE DEPTH 3.14 IMPACT LOAD COMBINATION 3.15 LOCATION OF IMPACT FORCES 3.16 MINIMUM IMPACT REQUIREMENT 3.17 BRIDGE PROTECTION SYSTEMS REFERENCES SECTION 4 DESIGN VESSEL SELECTION 4.1 GENERAL
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AASHTO HB	SPECIFICATIONS FOR HIGHWAY BRIDGES	1/3/2005	The structural design standards used by state bridge engineers. Widely used worldwide by practicing engineers and as a textbook in colleges and universities. This new edition features a section on seismic design.	Transportation Systems				DIVISION I DESIGN SECTION 1 GENERAL PROVISIONS SECTION 2 GENERAL FEATURES OF DESIGN SECTION 3 LOADS PART A TYPES OF LOADS PART B COMBINATIONS OF LOADS PART C DISTRIBUTION OF LOADS SECTION 4 FOUNDATIONS PART A GENERAL REQUIREMENTS AND MATERIALS PART B SERVICE LOAD DESIGN METHOD ALLOWABLE STRESS DESIGN PART C STRENGTH DESIGN METHOD LOAD FACTOR DESIGN SECTION 5 RETAINING WALLS PART A GENERAL REQUIREMENTS AND MATERIALS PART B SERVICE LOAD DESIGN METHOD ALLOWABLE STRESS DESIGN PART C STRENGTH DESIGN METHOD LOAD FACTOR DESIGN SECTION 6 CULVERTS SECTION 7 SUBSTRUCTURES PART A GENERAL REQUIREMENTS AND MATERIALS PART B SERVICE LOAD DESIGN METHOD ALLOWABLE STRESS DESIGN PART C
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AASHTO HSM 1	HIGHWAY SAFETY MANUAL	1/2/2012	Helps measurably reduce the frequency and severity of crashes on American roadways by providing tools for considering safety in the project development process.	Transportation Systems				<p>VOLUME 1 Part A - Introduction, Human Factors, and Fundamentals Chapter 1 - Introduction and Overview Chapter 2 - Human Factors Chapter 3 - Fundamentals Part B - Roadway Safety Management Process Chapter 4 - Network Screening Chapter 5 - Diagnosis Chapter 6 - Select Countermeasures Chapter 7 - Economic Appraisal Chapter 8 - Prioritize Projects Chapter 9 - Safety Effectiveness Evaluation VOLUME 2 Part C - Predictive Method Chapter 10 - Predictive Method for Rural Two-Lane, Two-Way Roads Chapter 11 - Predictive Method for Rural Multilane Highways Chapter 12 - Predictive Method for Urban and Suburban Arterials VOLUME 3 Part D - Crash Modification Factors Chapter 13 - Roadway Segments Chapter 14 - Intersections Chapter 15 - Interchanges Chapter 16 - Special Facilities and Geometric Situations Chapter 17 - Road</p>
AASHTO LR 1	THE ROAD TO LIVABILITY: HOW STATE DEPARTMENTS OF TRANSPORTATION ARE USING ROAD INVESTMENTS TO IMPROVE COMMUNITY LIVABILITY	21/04/2010	Provides examples of the many ways states are working to enhance a community's attractiveness, build its local economy, create a sense of place, preserve its character, enhance its safety, and improve access to services.	Transportation Systems				

AASHTO MASH 1	MANUAL FOR ASSESSING SAFETY HARDWARE		Gives present uniform guidelines for the crash testing of both permanent and temporary highway safety features and recommended evaluation criteria to assess test results.	Transportation Systems				Chapter 1 - Introduction Chapter 2 - Test Matrices and Conditions Chapter 3 - Test Installation Chapter 4 - Test Vehicle Specifications Chapter 5 - Evaluation Criteria Chapter 6 - Test Documentation Chapter 7 - In-Service Performance Evaluation Appendix A - Commentary Appendix B - Soil Strength Performance Test Appendix C - Electronic & Photographic Instrumentation Specifications Appendix D - Analytical and Experimental Tools Appendix E - Measurement of Vehicle Deformation Appendix F - Determination of THIV, PHD, and ASI Appendix G - Occupant Risk Estimation for 1500A Vehicle Appendix H - Test Vehicle Selection Procedures Glossary References and Bibliography
AASHTO MSD 1	MAINTAINING STRATEGIC DIRECTION FOR PROTECTING AMERICA'S TRANSPORTATION SYSTEM		Describes the topic that DOTs are now being challenged to ensure that the infrastructure they own and operate is adequately protected against terrorism.	Transportation Systems				

AASHTO OSOW 1	A SYNTHESIS OF SAFETY IMPLICATIONS OF OVERSIZE/OVERWEIGHT COMMERCIAL VEHICLES	1/12/2009	Describes specific objective of this research project was to prepare a synthesis of safety implications of oversize/ overweight (OS/OW) commercial vehicles.	Transportation Systems				Executive Summary Section 1. Introduction Section 2. The Concern - Heavy Commercial Truck Growth Section 3. Heavy Vehicle Types, Weights, and Sizes Section 4. Truck Characteristics Affecting Crashes Section 5. Heavy Truck Crashes in General Section 6. Data Associated with OS/OW Heavy Vehicles. Section 7. Illustrative Case Studies Section 8. Summary, Findings, and Recommendations Bibliography Glossary of Terms Related to Heavy Trucks. Acronyms
AASHTO PAR 1	PROTECTING AMERICA'S ROADS, BRIDGES AND TUNNELS: THE ROLE OF STATE DOT'S IN HOMELAND SECURITY		Provides an overview of why the security of our roads, bridges, and tunnels is important, what DOTs are doing to improve it, and the keys to a better partnership.	Transportation Systems				

AASHTO RSDG	ROADSIDE DESIGN GUIDE	1/2/2012	Provides a synthesis of current information and operating practices related to roadside safety and is written in dual units - metric and U.S. Customary.	Transportation Systems				<p>PREFACE CHAPTER 1 - AN INTRODUCTION TO ROADSIDE SAFETY CHAPTER 2 - ECONOMIC EVALUATION OF ROADSIDE SAFETY CHAPTER 3 - ROADSIDE TOPOGRAPHY AND DRAINAGE FEATURES CHAPTER 4 - SIGN, SIGNAL, AND LUMINAIRE SUPPORTS, UTILITY POLES, TREES, AND SIMILAR ROADSIDE FEATURES CHAPTER 5 - ROADSIDE BARRIERS CHAPTER 6 - MEDIAN BARRIERS CHAPTER 7 - BRIDGE RAILINGS AND TRANSITIONS CHAPTER 8 - END TREATMENTS CHAPTER 9 - TRAFFIC BARRIERS, TRAFFIC CONTROL DEVICES, AND OTHER SAFETY FEATURES FOR WORK ZONES CHAPTER 10 - ROADSIDE SAFETY IN URBAN OR RESTRICTED ENVIRONMENTS CHAPTER 11 - ERECTING MAILBOXES ON STREETS AND HIGHWAYS CHAPTER 12 - ROADSIDE SAFETY ON LOW-VOLUME ROADS AND STREETS GLOSSARY INDEX</p>
AASHTO SHSP	AASHTO STRATEGIC HIGHWAY SAFETY PLAN: A COMPREHENSIVE PLAN TO SUBSTANTIALLY REDUCE VEHICLE-RELATED FATALITIES AND INJURIES ON THE NATION'S HIGHWAYS	1/2/2005	Provides a strategic plan that would impact national statistics on vehicle-related death and injury.	Transportation Systems				<p>Introduction Section I: The AASHTO Initiative Section II: The Plan Elements Part 1 - Drivers Part 2 - Special Users Part 3 - Vehicles Part 4 - Highways Part 5 - Emergency Medical Services Part 6 - Management</p>
AASHTO SLF3 1	AASHTO SAFETY LEADERSHIP FORUM 3		Provides an excellent opportunity for the State Departments of Transportation to consider critical steps toward achieving desired State and national transportation safety improvement goals.	Transportation Systems				

AASHTO SLF4 1	SAFETY LEADERSHIP FORUM 4: REDUCING FATALITIES BY HALF	17/05/2009	Acts as a guide to the most critical processes and safety practices for achieving AASHTO's ambitious safety goal of reducing fatalities by half was made clearer at the fourth AASHTO Safety Leadership Forum.	Transportation Systems				Executive Summary The Road to Achieving AASHTO's Safety Goal What Every CEO Needs to Know to Succeed at Reducing Fatalities Conversation Circles - Sharing Challenges and Success Stories Promising State Safety Strategies to Reduce Fatalities Identifying Future Needs to Boost State and Local Safety Success Innovative State Program Ideas Striving for the Goal: Federal, State, and Industry Partners How the Vehicle Industry has Contributed to Halving Fatalities Forecasts of Possible Future Areas Ripe for Attaining Fatality Reductions Commitment to the Goal Resources The Suggestion Box Safety Forum Bonus Session - Mississippi Report on Hurricane Evacuation Appendix A - Agenda Appendix B - CEO Safety Actions Checklist Appendix C - Conversation Circle I: Promising State Strategies to Reduce Fatalities
AASHTO SR 3	HIGHWAY SAFETY DESIGN AND OPERATIONS GUIDE		Combines results of research and state-of-the-art technologies with proven engineering practices for enhancing safety in the operation and management of highways. Covers principal conclusions and recommendations for roadside design and traffic operations.	Transportation Systems				Preface Chapter 1 - Introduction Chapter 2 - Design Concepts for Safe Highways Chapter 3 - Freeways Chapter 4 - Rural Highways Chapter 5 - Urban and Suburban Highways Chapter 6 - Maintaining Highway Safety

AASHTO TF 29	TASK FORCE 29 REPORT - GUIDE SPECIFICATIONS FOR CATHODIC PROTECTION OF CONCRETE BRIDGE DECKS (1994)		Defines specifications for cathodic protection of reinforced concrete bridge decks, applicable to the nation's bridges. Cathodic protection is the only known fully developed means of mitigating the corrosion of reinforcing steel in existing bridge decks caused by the presence of chloride ions.	Transportation Systems				
AASHTO TF 32	TASK FORCE 32 REPORT - MANUAL FOR CORROSION PROTECTION OF CONCRETE COMPONENTS IN BRIDGES		Deals with the numerous systems available to provide corrosion protection for bridge components. By premature bridge failures, it is imperative that a quality product be provided at the time of construction. Use of this manual should ensure minimizing the number of concrete bridges or concrete components that will deteriorate to an unacceptable condition over their service life.	Transportation Systems				
AASHTO TIA	TRANSPORTATION: INVEST IN AMERICA		Provides recommendations for financing future transportation needs in the areas of security, safety, congestion relief, freight, research, capacity, preservation, environmental stewardship and streamlining, and planning and conformity.	Transportation Systems				

ACI 222R	PROTECTION OF METALS IN CONCRETE AGAINST CORROSION		Describes the factors that influence corrosion of reinforcing steel in concrete, measures for protecting embedded reinforcing steel in new construction, techniques for detecting corrosion in structures in service, and remedial procedures.	Commercial Facilities	Government Facilities	Residential Facilities		Chapter 1 - Introduction Chapter 2 - Mechanism of corrosion of steel in concrete Chapter 3 - Protection against corrosion in new construction Chapter 4 - Procedures for identifying corrosive environments and active corrosion in concrete Chapter 5 - Remedial measures Chapter 6 - References
ACI 318-11	Building Code Requirements for Structural Concrete and Commentary		The "Building Code Requirements for Structural Concrete" ("Code") covers the materials, design, and construction of structural concrete used in buildings and where applicable in nonbuilding Structures. The Code also covers the strength evaluation of existing concrete structures. Among the subjects covered are: contract documents; inspection; materials; durability requirements; concrete quality, mixing, and placing; formwork; embedded pipes; construction joints; reinforcement details; analysis and design; strength and serviceability; flexural and axial loads; shear and torsion; development and splices of reinforcement; slab systems; walls; footings; precast concrete; composite	Commercial Facilities	Government Facilities	Residential Facilities		

ACI 350	CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES AND COMMENTARY	10/9/2012	Covers the structural design, materials selection, and construction of environmental engineering concrete structures.	Commercial Facilities	Government Facilities	Residential Facilities		<p>PART 1 - GENERAL</p> <p>CHAPTER 1 - GENERAL REQUIREMENTS</p> <p>CHAPTER 2 - DEFINITIONS</p> <p>PART 2 - STANDARDS FOR TESTS AND MATERIALS</p> <p>CHAPTER 3 - MATERIALS</p> <p>PART 3 - CONSTRUCTION REQUIREMENTS</p> <p>CHAPTER 4 - DURABILITY REQUIREMENTS</p> <p>CHAPTER 5 - CONCRETE QUALITY MIXING AND PLACING</p> <p>CHAPTER 6 - FORMWORK, EMBEDDED PIPES, AND CONSTRUCTION AND MOVEMENT JOINTS</p> <p>CHAPTER 7 - DETAILS OF REINFORCEMENT</p> <p>PART 4 - GENERAL REQUIREMENTS</p> <p>CHAPTER 8 - ANALYSIS AND DESIGN-GENERAL CONSIDERATIONS</p> <p>CHAPTER 9 - STRENGTH AND SERVICEABILITY REQUIREMENTS</p> <p>CHAPTER 10 - FLEXURE AND AXIAL LOADS</p> <p>CHAPTER 11 - SHEAR AND TORSION</p>
ACI SCG1	THE SUSTAINABLE CONCRETE GUIDE - STRATEGIES AND EXAMPLES		Gives insight on specific strategies for the best use of concrete in high-performance, long-lasting, green buildings. Included in the guide are case studies, technical data and references, and numerous practices that can be implemented immediately.	Commercial Facilities	Government Facilities	Residential Facilities		<p>Chapter 1 - Carbon footprint</p> <p>Chapter 2 - Thermal transmission</p> <p>Chapter 3 - Thermal mass and storage</p> <p>Chapter 4 - Longevity and service life</p> <p>Chapter 5 - Stormwater management</p> <p>Chapter 6 - Human factors and the living/working environment</p> <p>Chapter 7 - Safety and security</p> <p>Chapter 8 - Reduce, reuse, recycle</p> <p>Chapter 9 - Economic impact</p> <p>Chapter 10 - Resilience with climate change</p> <p>Chapter 11 - Compatibility with other innovative sustainability strategies</p>

ACI SCGI	THE SUSTAINABLE CONCRETE GUIDE - STRATEGIES AND EXAMPLES	2010	Gives insight on specific strategies for the best use of concrete in high-performance, long-lasting, green buildings. Included in the guide are case studies, technical data and references, and numerous practices that can be implemented immediately.	Commercial Facilities	Government Facilities	Residential Facilities		<p>Chapter 1 - Carbon footprint Chapter 2 - Thermal transmission Chapter 3 - Thermal mass and storage Chapter 4 - Longevity and service life Chapter 5 - Stormwater management Chapter 6 - Human factors and the living/working environment Chapter 7 - Safety and security Chapter 8 - Reduce, reuse, recycle Chapter 9 - Economic impact Chapter 10 - Resilience with climate change Chapter 11 - Compatibility with other innovative sustainability strategie</p>
ACI SD	SIMPLIFIED DESIGN OF REINFORCED CONCRETE BUILDINGS		Offers practicing engineers with timesaving analysis, design, and detailing methods of primary framing members of a reinforced concrete building.	Commercial Facilities	Government Facilities	Residential Facilities		<p>1 A Simplified Design Approach 2 Simplified Frame Analysis 3 Simplified Design for Beams and One Way Slabs 4 Simplified Design for Two-Way Slabs 5 Simplified Design for Columns 6 Simplified Design for Structural Walls 7 Simplified Design for Footings 8 Structural Detailing of Reinforcing for Economy 9 Design Considerations for Economical Formwork 10 Design Considerations for Fire Resistance 11 Design Considerations for Earthquake Forces 12 Introduction to Sustainable Design</p>

AIA IgCC	International Green Construction Code	2012	The IgCC creates a regulatory framework for new and existing buildings, establishing minimum green requirements for buildings and complementing voluntary rating systems which may extend beyond the customizable baseline of the IgCC. The code acts as an overlay to the existing set of International Codes, including provisions of the International Energy Conservation Code and ICC-700, the National Green Building Standard, and incorporates ASHRAE Standard 189.1 as an alternate path to compliance.	Commercial Facilities	Government Facilities	Residential Facilities		
AISC 101	DESIGNING WITH STRUCTURAL STEEL - A GUIDE FOR ARCHITECTS		Covers architectural issues, including design ideas, structural systems concepts, tolerances, coating systems, fire protection, thermal movement, exposed structures, bending and shaping of steel members, welding, design tables and representative dimensional information for beams and columns, tables of structural shapes in U.S. standard and metric units and economical architectural details.	Commercial Facilities	Government Facilities	Residential Facilities		

AISC 303	Code of Standard Practice for Steel Buildings and Bridges	2010	The AISC 303 standard sets forth criteria for the trade practices involved in steel buildings, bridges, and other structures, where other structures are defined as those structures designed, fabricated, and erected in a manner similar to buildings, with building-like vertical and lateral load resisting elements					
AISC 325	STEEL CONSTRUCTION MANUAL		Includes several updates and revisions, including the new HP18 and HP16 series, updated connection tables based on increased bolt shear strength values, revised single-plate and extended single-plate connection design procedures, enhanced prying action procedure, and a revised bracket plate design procedure.	Commercial Facilities	Government Facilities	Residential Facilities		1 Scope 2 Structural products 2.1 W-, M-, S- and HP-Shapes 2.2 Channels. 2.3 Angles 2.4 Structural Tees (WT-, MT- and ST-Shapes) 2.5 Hollow Structural Sections (HSS) 2.6 Steel Pipe 2.7 Double Angles 2.8 Double Channels 2.9 W-Shapes with Cap Channels 2.10 S-Shapes with Cap Channels 2.11 Plate Products 2.12 Crane Rails 2.13 Other Structural Products 3 Standard mill practices 3.1 Hot-Rolled Structural Shapes 3.2 Hollow Structural Sections 3.3 Steel Pipe 3.4 Plate Products TABLES
AISC 326	DETAILING FOR STEEL CONSTRUCTION		Contains instruction, explanations, problem solutions and many typical shop details and drawings.	Commercial Facilities	Government Facilities	Residential Facilities		
AISC 327	AISC SEISMIC DESIGN MANUAL	7/1/2013		Commercial Facilities	Government Facilities	Residential Facilities		

AISC 341	SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS	22/06/2010	Pertains to the design of seismic force resisting systems of structural steel or of structural steel acting compositely with reinforced concrete, unless specifically exempted by the applicable building code.	Commercial Facilities	Government Facilities	Residential Facilities		CROSS REFERENCE SYMBOLS GLOSSARY ACRONYMS PROVISIONS A. GENERAL REQUIREMENTS B. GENERAL DESIGN REQUIREMENTS C. ANALYSIS D. GENERAL MEMBER AND CONNECTION DESIGN REQUIREMENTS E. MOMENT-FRAME SYSTEMS F. BRACED-FRAME AND SHEAR-WALL SYSTEMS G. COMPOSITE MOMENT-FRAME SYSTEMS H. COMPOSITE BRACED-FRAME AND SHEAR-WALL SYSTEMS I. FABRICATION AND ERECTION J. QUALITY CONTROL AND QUALITY ASSURANCE K. PREQUALIFICATION AND CYCLIC QUALIFICATION TESTING PROVISIONS COMMENTARY A. GENERAL REQUIREMENTS B. GENERAL DESIGN REQUIREMENTS C. ANALYSIS D. GENERAL MEMBER AND CONNECTION DESIGN REQUIREMENTS E. MOMENT-FRAME SYSTEMS F. BRACED-FRAME AND SHEAR-WALL SYSTEMS G. COMPOSITE MOMENT-FRAME SYSTEMS H. COMPOSITE BRACED-
AISC 348	SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS	31/12/2009	Describes the design of bolted joints and the installation and inspection of the assemblies of fastener components.	Commercial Facilities	Government Facilities	Residential Facilities		Symbols Glossary Section 1 - General Requirements Section 2 - Fastener Components Section 3 - Bolted Parts Section 4 - Joint Type Section 5 - Limit States in Bolted Joints Section 6 - Use of Washers Section 7 - Pre-Installation Verification Section 8 - Installation Section 9 - Inspection Section 10 - Arbitration Appendix A - Testing Method to Determine the Slip Coefficient for Coatings Used in Bolted Joints Appendix B - Allowable Stress Design (ASD) Alternative References Index

AISC 358	PREQUALIFIED CONNECTIONS FOR SPECIAL AND INTERMEDIATE STEEL MOMENT FRAMES FOR SEISMIC APPLICATIONS		Describes design, detailing, fabrication and quality criteria for connections that are prequalified in accordance with the AISC Seismic Provisions for Structural Steel Buildings for use with special moment frames (SMF) and intermediate moment frames (IMF).	Commercial Facilities	Government Facilities	Residential Facilities	<p>SYMBOLS GLOSSARY STANDARD</p> <p>CHAPTER 1 - GENERAL CHAPTER 2 - DESIGN REQUIREMENTS CHAPTER 3 - WELDING REQUIREMENTS CHAPTER 4 - BOLTING REQUIREMENTS CHAPTER 5 - REDUCED BEAM SECTION (RBS) MOMENT CONNECTION CHAPTER 6 - BOLTED UNSTIFFENED AND STIFFENED EXTENDED END-PLATE MOMENT CONNECTIONS CHAPTER 7 - BOLTED FLANGE PLATE (BFP) MOMENT CONNECTION CHAPTER 8 - WELDED UNREINFORCED FLANGE-WELDED WEB (WUF-W) MOMENT CONNECTION CHAPTER 9 - KAISER BOLTED BRACKET (KBB) MOMENT CONNECTION CHAPTER 10 - CONXTECH CONXL MOMENT CONNECTION APPENDIX A - CASTING REQUIREMENTS APPENDIX B - FORGING REQUIREMENTS COMMENTARY INTRODUCTION</p> <p>CHAPTER 1 - GENERAL CHAPTER 2 - DESIGN REQUIREMENTS CHAPTER 3 - WELDING REQUIREMENTS</p>
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AISC 360	SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS	22/06/2010	Pertains to the design of the structural steel system or systems with structural steel acting compositely with reinforced concrete, where the steel elements are defined in the AISC Code of Standard Practice for Steel Buildings and Bridges.	Commercial Facilities	Government Facilities	Residential Facilities	SYMBOLS GLOSSARY SPECIFICATION A. GENERAL PROVISIONS B. DESIGN REQUIREMENTS C. DESIGN FOR STABILITY D. DESIGN OF MEMBERS FOR TENSION E. DESIGN OF MEMBERS FOR COMPRESSION F. DESIGN OF MEMBERS FOR FLEXURE G. DESIGN OF MEMBERS FOR SHEAR H. DESIGN OF MEMBERS FOR COMBINED FORCES AND TORSION I. DESIGN OF COMPOSITE MEMBERS J. DESIGN OF CONNECTIONS K. DESIGN OF HSS AND BOX MEMBER CONNECTIONS L. DESIGN FOR SERVICEABILITY M. FABRICATION AND ERECTION N. QUALITY CONTROL AND QUALITY ASSURANCE APPENDIX 1 - DESIGN BY INELASTIC ANALYSIS APPENDIX 2 - DESIGN FOR PONDING APPENDIX 3 - DESIGN FOR FATIGUE APPENDIX 4 - STRUCTURAL DESIGN FOR FIRE CONDITIONS APPENDIX 5 - EVALUATION OF EXISTING STRUCTURES APPENDIX 6 - STABILITY BRACING FOR COLUMNS
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AISC 420/SSPC-QP 3	Certification Standard for Shop Application of Complex Protective Coating Systems	2010	This AISC standard is a joint effort between AISC and SSPC: The Society for Protective Coatings. The standard allows paint shops and steel fabricators to meet the qualification criteria for two major certification programs (AISC's Sophisticated Paint Endorsement, SPE, and SSPC's QP 3 program) using the same reference document. AISC's SPE certification confirms to owners, the design community, and the construction industry that a firm has knowledgeable personnel and the organization, experience, procedures, and equipment to provide surface preparation and application of complex painting systems in a shop facility according to contract specifications.	Commercial Facilities	Government Facilities	Residential Facilities		
AISC 503	SELECTED ASTM STANDARDS FOR STRUCTURAL STEEL FABRICATION	20/08/2013	Provides all ASTM standards that apply in the design and construction of structural steel buildings and bridges.	Commercial Facilities	Government Facilities	Residential Facilities		

AISC 801	DESIGN GUIDE 1: BASE PLATE AND ANCHOR ROD DESIGN	15/10/2012	Helps engineers and fabricators in the design, detailing and specification of column-base-plate and anchor-rod connections, in a manner that avoids common fabrication and erection problems.	Commercial Facilities	Government Facilities	Residential Facilities	<p>1.0 INTRODUCTION 2.0 MATERIAL, FABRICATION, INSTALLATION, AND REPAIRS 2.1 Material Specifications 2.2 Base Plate Material Selection 2.3 Base Plate Fabrication and Finishing 2.4 Base Plate Welding 2.5 Anchor Rod Material 2.6 Anchor Rod Holes and Washers 2.7 Anchor Rod Sizing and Layout 2.8 Anchor Rod Placement and Tolerances 2.9 Column Erection Procedures 2.9.1 Setting Nut and Washer Method 2.9.2 Setting Plate Method 2.9.3 Shim Stack Method 2.9.4 Setting Large Base Plates 2.10 Grouting Requirements 2.11 Anchor Rod Repairs 2.11.1 Anchor Rods in the Wrong Position 2.11.2 Anchor Rods Bent or Not Vertical 2.11.3 Anchor Rod Projection Too Long or Too Short 2.11.4 Anchor Rod Pattern Rotated 90 degree 2.12 Details for Seismic Design D 3.0 DESIGN OF COLUMN BASE PLATE CONNECTIONS 3.1 Concentric Compressive Axial Loads 3.1.1</p>
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AISC 802	DESIGN GUIDE 2: STEEL AND COMPOSITE BEAMS WITH WEB OPENINGS	15/10/2012	Web openings have been used for many years in structural steel beams. This design guide summarizes design concepts for the practising engineer and reviews the research and history of web openings. Also presents a unified design approach to both steel and composite beams with web openings, including the requirements for reinforcement.	Commercial Facilities	Government Facilities	Residential Facilities		1 INTRODUCTION 2 DEFINITIONS AND NOTATION 2.1 Definitions 2.2 Notation 3 DESIGN OF MEMBERS WITH WEB OPENINGS 3.1 General 3.2 Load and Resistance Factors 3.3 Overview of Design Procedures 3.4 Moment-Shear Interaction 3.5 Equations for Maximum Shear Capacity, M[m] 3.6 Equations for Maximum Shear Capacity, V[m] 3.7 Guidelines for Proportioning and Detailing Beams with Web Openings 3.8 Allowable Stress Design 4 DESIGN SUMMARIES AND EXAMPLE PROBLEMS 4.1 General 4.2 Example 1: Steel Beam with Unreinforced Opening 4.3 Example 1A: Steel Beam with Unreinforced Opening - ASD Approach 4.4 Example 2: Steel Beam with Reinforced Opening 4.5 Example 3: Composite Beam with Unreinforced Opening 4.6 Example 4: Composite Girder with Unreinforced and Reinforced Openings 5 BACKGROUND AND
AISC 803	DESIGN GUIDE 3: SERVICEABILITY DESIGN CONSIDERATIONS FOR STEEL BUILDINGS	15/10/2012	Covers serviceability design criteria for all building types, including tall buildings. Topics include deflection, vibration, and drift as they relate to cladding, roofing, skylights, interior partitions, equipment, and motion perception.	Commercial Facilities	Government Facilities	Residential Facilities		Chapter 1 Introduction Chapter 2 Design Considerations Relative to Roofing Chapter 3 Design Considerations Relative to Skylights Chapter 4 Design Considerations Relative to Cladding, Frame Deformation, and Drift Chapter 5 Design Considerations Relative to Interior Partitions and Ceilings Chapter 6 Design Considerations Relative to Vibration/Acceleration Chapter 7 Design Considerations Relative to Equipment References Appendix Summary of Serviceability Considerations

AISC 804	DESIGN GUIDE 4: EXTENDED END-PLATE MOMENT CONNECTIONS - SEISMIC AND WIND APPLICATIONS	15/10/2012	The use of extended end-plate moment connections is increasing in steel frame construction. Covers the design, fabrication, and erection of this type of connection. Gives recommendations and background for four-bolt as well as eight-bolt end-plate connections.	Commercial Facilities	Government Facilities	Residential Facilities	1 Introduction 1.1 Background 1.2 Overview of the Design Guide 1.3 Brief Literature Overview 1.3.1 End Plate Design 1.3.2 Bolt Design 1.3.3 Column Side design 1.3.4 Cyclic test of End-Plate Moment Connections 1.3.5 Finite Element Analysis of End-Plate Moment Connections 2 Background for Design Procedures 2.1 Basis of Design Recommendations 2.2 Overview of Theory and Mechanics 2.2.1 Connection Design Moment 2.2.2 Yield Line Theory 2.2.3 Bolt Force Model 2.3 Limit State Check List 2.4 Detailing and Fabrication Practices 3 Design Procedure 3.1 Overview 3.2 Design Steps 3.3 Analysis 3.4 Limitations 4 Design Examples 4.1 Scope 4.2 Four Bolt Unstiffened Extended (4E) End-Plate Connection 4.3 Four Bolt Stiffened Extended (4ES) End-Plate Connection 4.4 Eight Bolt Stiffened Extended (8ES)
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AISC 805	DESIGN GUIDE 5: DESIGN OF LOW- AND MEDIUM-RISE STEEL BUILDINGS		The design of medium-rise steel buildings is consolidated in one booklet as a reference for all designers of these structures. This design guide includes rules for economic design for engineers. Loading requirements are also discussed as well as joist and composite floor systems.	Commercial Facilities	Government Facilities	Residential Facilities		1 BASIC DESIGN RULES FOR ECONOMY 2 LIVE LOAD AND BAY SIZE SELECTION 2.1 Live Load Selection 2.2 Bay Size Selection 3 COMPOSITE FLOORS 3.1 Allowable Stress (ASD) and Load 3.2 Economy with LRFD 3.3 Floor Load Capacity Enhancement 3.4 Shored vs. Unshored Construction 3.5 Serviceability Considerations 3.6 Underfloor Duct Systems 4 OPEN WEB JOIST FLOOR SYSTEMS 4.1 Joist Size and Spacing 4.2 Girder Beam Design 4.3 Composite Joist Systems 4.4 Floor Vibration 5 WIND LOAD DESIGN 5.1 Drift Limits 5.2 "K" Bracing Frames 5.3 Unbraced Frame Design 5.4 Special Wind Frames 6 APPENDICES 6.1 LRFD Composite Beam Design 6.2 Composite Beam Load Capacity Enhancement 6.3 Composite Beam Long Term Deflection 6.4 Steel Joist Typical Bay 6.5 K-Frame Bracing Optimization 6.6 Unbraced Frame Design
AISC 806	DESIGN GUIDE 6: LOAD AND RESISTANCE FACTOR DESIGN OF W-SHAPES ENCASED IN CONCRETE	15/10/2012	Covers the design of W-shape columns encased in reinforced structural concrete with vertical deformed reinforcing bars and lateral ties, including the associated connection design issues, placement of reinforcing bars and ties, and treatment of joints and base plates.	Commercial Facilities	Government Facilities	Residential Facilities		1 INTRODUCTION 2 SCOPE PART 1 - USE AND DESIGN OF COMPOSITE COLUMNS REFERENCES NOMENCLATURE PART 2 - SUGGESTED DETAILS FOR COMPOSITE COLUMNS PART 3 - DESIGN EXAMPLES PART 4 - LRFD COMPOSITE BEAM-COLUMN DESIGN TABLES PART 5 - COMPOSITE COLUMN PROGRAM CMPOL

AISC 807	DESIGN GUIDE 7: INDUSTRIAL BUILDINGS - ROOFS TO ANCHOR RODS	15/10/2012	Provides complete coverage of structural considerations encountered in the design of conventional industrial buildings.	Commercial Facilities	Government Facilities	Residential Facilities	<p>PART 1 - INDUSTRIAL BUILDINGS-GENERAL</p> <p>1 INTRODUCTION TO PART 1</p> <p>2 LOADING CONDITIONS AND LOADING COMBINATIONS</p> <p>3 OWNER ESTABLISHED CRITERIA</p> <p>3.1 Slab-on-Grade Design 3.2 Jib Cranes 3.3 Interior Vehicular Traffic 3.4 Future Expansion 3.5 Dust Control/Ease of Maintenance</p> <p>4 ROOF SYSTEMS 4.1 Steel Deck for Built-up or Membrane Roofs 4.2 Metal Roofs 4.3 Insulation and Roofing 4.4 Expansion Joints 4.5 Roof Pitch, Drainage and Ponding 4.6 Joists and Purlins</p> <p>5 ROOF TRUSSES 5.1 General Design and Economic Considerations 5.2 Connection Considerations 5.3 Truss Bracing 5.4 Erection Bracing 5.5 Other Considerations</p> <p>6 WALL SYSTEMS 6.1 Field Assembled Panels 6.2 Factory Assembled Panels 6.3 Precast Wall Panels 6.4 Masonry Walls 6.5 Girts 6.6 Wind Columns</p> <p>7 FRAMING SCHEMES 7.1 Braced Frames vs. Rigid Frames 7.2 Tube</p>
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AISC 808	DESIGN GUIDE 8: PARTIALLY RESTRAINED COMPOSITE CONNECTIONS	1/12/1996	Covers design of braced and unbraced frames with partially restrained composite connections and is divided into four parts.	Commercial Facilities	Government Facilities	Residential Facilities		<p>PART I: BACKGROUND 1 Introduction 2 Characterization of Connection Behavior 3 Advantages and Limitations 4 Connection M-? Curves 5 Analysis 5.1 Service Load Range 5.2 Beam Line Analysis for Gravity Loading at Service 5.3 Connection Ultimate Strength (Gravity Loads) 5.4 Frame and Beam Ultimate Strength 6 Design Considerations 6.1 PR Beam Deflections 6.2 Lateral Drift 6.3 Beam Stiffness 6.4 PR-CC Effect on Column End Restraint 6.5 Bottom Angle Connection 7 Detailing 8 References</p> <p>PART II: DESIGN PROCEDURES 1 Introduction 2 PR-CCs for Gravity Design in Braced Frames 2.1 Introduction 2.2 Recommended Design Procedure- Braced Frames 3 PR-CCs for Lateral Resistance in Unbraced Frames 3.1 Introduction 3.2 Design Procedure for Unbraced Frames</p> <p>PART III: DESIGN EXAMPLE PR-CCs in Braced Frames: N-S Direction PR-CCs in Unbraced Frames: E-W Direction</p>
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AISC 809	DESIGN GUIDE 9: TORSIONAL ANALYSIS OF STRUCTURAL STEEL MEMBERS	15/10/2012	Design and analysis of structural members subjected to torsional loading are covered in this Steel Design Guide. An update of the former AISC publication of similar name, coverage includes determination of torsional stresses, fundamentals of torsional theory, Specification provisions and serviceability issues. The design process are illustrated by design examples and the use of design aids.	Commercial Facilities	Government Facilities	Residential Facilities	1 Introduction 2 Torsion Fundamentals 2.1 Shear Center 2.2 Resistance of a Cross-Section to Torsion 2.3 Avoiding and Minimizing Torsion 2.4 Selection of Shapes for Torsional Loading 3 General Torsional Theory 3.1 Torsional Response 3.2 Torsional Properties 3.2.1 Torsional Constant J 3.2.2 Other Torsional Properties for Open Cross-Sections 3.3 Torsional Functions 4 Analysis for Torsion 4.1 Torsional Stresses on I-, C-, and Z-Shaped Open Cross-Sections 4.1.1 Pure Torsional Shear Stresses 4.1.2 Shear Stresses Due to Warping 4.1.3 Normal Stresses Due to Warping 4.1.4 Approximate Shear and Normal Stresses Due to Warping on I-Shapes 4.2 Torsional Stress on Single Angles 4.3 Torsional Stress on Structural Tees 4.4 Torsional Stresses on Closed and Solid Cross-Sections 4.5 Elastic Stresses Due to Bending and Axial Load 4.6 Combining
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AISC 810	ERECTION BRACING OF LOW-RISE STRUCTURAL STEEL FRAMES	15/10/2012	Design examples and information for the design of temporary lateral support systems and components for low-rise buildings. Detailed engineering calculation for the justification of temporary bracing systems are covered in Part One. Prescriptive systems for temporary bracing as well as engineering guidance to foster structural details that are inherently erectable are given in Part Two.	Commercial Facilities	Government Facilities	Residential Facilities	<p>1 Introduction 1.1 Types of Systems 1.2 Current State of the Art 1.3 Common Fallacies 1.4 Use of This Guide PART 1 - DETERMINATION OF BRACING REQUIREMENTS BY CALCULATION</p> <p>2 Introduction to part 1 3 Construction phase load for temporary supports 3.1 Gravity Loads 3.2 Environmental Loads 3.2.1 Wind Loads 3.2.2 Seismic Loads 3.3 Stability Loads 3.4 Erection Operation Loads 3.5 Load Combinations 4 Resistance to construction phase loads by the permanent structures 4.1 Columns 4.2 Column Bases 4.2.1 Fracture of the Fillet Weld Connecting the Column to the Base Plate 4.2.2 Bending Failure of the Base Plate 4.2.3 Rupture of Anchor Rods 4.2.4 Buckling of the Anchor Rods 4.2.5 Anchor Rod Pull or Push Through 4.2.6 Anchor Rod Pull Out 4.2.7 Anchor Rod "Push Out" of the Bottom of the</p>
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AISC 811	DESIGN GUIDE 11: FLOOR VIBRATIONS DUE TO HUMAN ACTIVITY	15/10/2012	Includes the design of steel framed floor systems and footbridges for vibration serviceability due to human activities. Both human comfort and the need to control movement for sensitive equipment are considered. Remedial measures for problem floors are discussed.	Commercial Facilities	Government Facilities	Residential Facilities	1 Introduction 1.1 Objectives of the Design Guide 1.2 Road Map 1.3 Background 1.4 Basic Vibration Terminology 1.5 Floor Vibration Principles 2 Acceptance Criteria For Human Comfort 2.1 Human Response to Floor Motion 2.2 Recommended Criteria for Structural Design 2.2.1 Walking Excitation 2.2.2 Rhythmic Excitation 3 Natural Frequency of Steel Framed Floor Systems 3.1 Fundamental Relationships 3.2 Composite Action 3.3 Distributed Weight 3.4 Deflection Due to Flexure: Continuity 3.5 Deflection Due to Shear in Beams and Trusses 3.6 Special Consideration for Open Web Joists and Joist Girders 4 Design For Walking Excitation 4.1 Recommended Criterion 4.2 Estimation of Required Parameters 4.3 Application of Criterion 4.4 Example Calculations 4.4.1 Footbridge Examples 4.4.2 Typical Interior Bay of an Office Building Examples 4.4.3
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AISC 812	DESIGN GUIDE 12: MODIFICATION OF EXISTING STEEL WELDED MOMENT FRAME CONNECTIONS FOR SEISMIC RESISTANCE	1/3/2003	Covers the rehabilitation of existing welded steel moment frame buildings to improve their seismic resistance.	Commercial Facilities	Government Facilities	Residential Facilities		Preface 1 Introduction 1.1 Background 1.2 Factors Contributing to Connection Failures 1.3 Repair and Modification 1.4 Objective of Design Guide 2 Achieving Improved Seismic Performance 2.1 Reduced Beam Section 2.2 Welded Haunch 2.3 Bolted Bracket 3 Experimental Results 3.1 Related Research 3.1.1 Reduced Beam Section 3.1.2 Welded Haunch 3.1.3 Bolted Bracket 3.2 NIST/AISC Experimental Program 3.2.1 Reduced Beam Section 3.2.2 Welded Haunch 3.2.3 Bolted Bracket 4 Design Basis for Connection Modification 4.1 Material Strength 4.2 Critical Plastic Section 4.3 Design Forces 4.3.1 Plastic Moment 4.3.2 Beam Shear 4.3.3 Column-Beam Moment Ratio 4.4 Connection Modification Performance Objective 5 Design of Reduced Beam Section Modification 5.1 Recommended Design Provisions 5.1.1
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AISC 813	WIDE-FLANGE COLUMN STIFFENING AT MOMENT CONNECTIONS	15/10/2012	Determining the design stiffness and strength for unreinforced wide-flange columns at locations of strong axis beam-to-column moment connection. Covers the design of column stiffening elements such as web doubler plates and transverse stiffeners (also known as continuity plates), when the unreinforced column strength and/or stiffness is inadequate. In both cases recommendations for economy are included.	Commercial Facilities	Government Facilities	Residential Facilities	<p>1 Introduction 1.1 Scope 1.2 Column Stiffening 1.3 References Specifications 1.4 Definitions of Wind, Low-Seismic, and High-Seismic Applications 1.5 Acknowledgements 2 Strong-Axis Moment Connections to Unreinforced Columns 2.1 Force Transfer in Unreinforced Columns 2.2 Determining the Design Strength of an Unreinforced Column 2.3 Column Cross-Sectional Stiffness Considerations 2.4 Design Aids 3 Economical Selection of Columns 3.1 Achieving Balance Between Increases In Material Cost and Reductions in Labor Cost 3.2 Eliminating Column Stiffening 3.3 Minimizing the Economic Impact of Column Stiffening Requirements in Wind and Low-Seismic Applications 3.4 Minimizing the Economics Impact of Column Stiffening Requirements in High-Seismic Applications 4 Strong-Axis Moment Connections to Stiffened Columns</p>
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AISC 814	DESIGN GUIDE 14: STAGGERED TRUSS FRAMING SYSTEMS/WEXLER AND LIN	15/10/2012	Covers the design and construction of staggered truss framing systems, which can be used to frame systems, which can be used to frame steel buildings with a floor-to-floor height approximately equal to that of flat-plate concrete construction.	Commercial Facilities	Government Facilities	Residential Facilities	1 Staggered Truss Framing Systems 1.1 Advantages of Staggered Trusses 1.2 Material Description 1.3 Framing Layout 1.4 Responsibilities 1.5 Design Methodology 1.6 Design Presentation 2 Diaphragm Action with Hollow Core Slabs 2.1 General Information 2.2 Distribution of Lateral Forces 2.3 Transverse Shear in Diaphragm 2.4 Diaphragm Chords 3 Design of Truss Members 3.1 Hand and Computer Calculations 3.2 Live Load Reduction 3.3 Gravity Loads 3.4 Lateral Loads 3.5 Load Coefficients 3.6 Vertical and Diagonal Members 3.7 Truss Chords 3.8 Computer Modeling 3.9 Columns 4 Connections in Staggered Trusses 4.1 General Information 4.2 Connection Between Web Member and Gusset Plate 4.3 Connection Between Gusset Plate and Chord 4.4 Design Example 4.5 Miscellaneous Considerations 5 Seismic Design 5.1 Strength and Ductility Design Requirements 5.2
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AISC 815	DESIGN GUIDE 15: AISC REHABILITATION AND RETROFIT GUIDE: A REFERENCE FOR HISTORIC SHAPES AND SPECIFICATIONS	15/10/2012	Specifies an historical review of the ASTM material standards beginning in 1900 and on AISC specifications from 1923 forward. Also describes how existing structural systems can be enhanced for increased strength and stiffness.	Commercial Facilities	Government Facilities	Residential Facilities	<p>1 Historical Review of Specifications</p> <p>1.1 Structural Shapes and Plates</p> <p>1.2 Steel Pipe and Hollow Structural Sections</p> <p>1.3 Hot-Driven Rivets</p> <p>1.4 Structural Bolts</p> <p>1.4.1 Carbon Steel Bolts</p> <p>1.4.2 High Strength Steel Bolts</p> <p>1.5 Structural Welding</p> <p>2 Properties of Beam and Column Sections 1873-2000</p> <p>2.1 Steel Sections 1971-2000</p> <p>2.2 Steel Sections 1953 -1970</p> <p>2.3 Steel Sections 1887-1952</p> <p>2.4 Wrought Iron Sections 1873-1900</p> <p>3 Evaluation of Existing Structures</p> <p>3.1 Introduction</p> <p>3.2 Evaluation Methods</p> <p>3.2.1 Gravity Loads</p> <p>3.2.2 Seismic Loads</p> <p>3.3 Chapter N, AISC LRFD Specification</p> <p>3.3.1 Specification Provisions</p> <p>3.3.2 Commentary</p> <p>4 Enhancement of Existing Structural Systems</p> <p>4.1 Gravity Systems</p> <p>4.1.1 Floors</p> <p>4.1.2 Columns</p> <p>4.2 Lateral Systems</p> <p>4.2.1 Fully restrained moment frames</p> <p>4.2.2 Partially Restrained Moment Frames</p> <p>4.2.3 Concentrically Braced Frames</p>
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AISC 816	DESIGN GUIDE 16: FLUSH AND EXTENDED MULTIPLE-ROW MOMENT END-PLATE CONNECTIONS	15/10/2012	Covers the design of flush and extended multiple row moment end-plate connections.	Commercial Facilities	Government Facilities	Residential Facilities	<p>1 Uses and Classification of Moment End-Plate Connections 1.1 Introduction 1.2 Background</p> <p>1.2.1 Design Procedures for Moment End-Plates with Fully Tightened Bolts 1.2.2 Design Procedures for Moment End-Plates with Snug Tight Bolts 1.2.3 Finite Element Analysis of Moment End-Plates 1.2.4 Performance of Moment End-Plate Connections for Seismic Loading</p> <p>2 Design Procedures 2.1 Introduction 2.2 Yield-Line Theory and Mechanics 2.3 Bolt Force Predictions 2.4 Moment-Rotation Relationships 2.5 Design Procedures</p> <p>2.5.1 Design Procedure 1 2.5.2 Design Procedure 2 2.5.3 Additional Assumptions and Conditions 2.6 Limit States Check List</p> <p>3 Flush End-Plate Design 3.1 Design Equations, Limitations, and Definitions 3.1.1 Design Equations 3.1.2 Limitations 3.1.3 Definitions 3.2 Design Examples 3.2.1 Two-</p>
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AISC 817	DESIGN GUIDE 17: HIGH STRENGTH BOLTS - A PRIMER FOR STRUCTURAL ENGINEERS	15/10/2012	Provides the structural engineer with the information necessary to select suitable high-strength bolts, specify the methods of their installation and inspection, and to design connections that use this type of fastener.	Commercial Facilities	Government Facilities	Residential Facilities		1 Introduction 1.1 Purpose and Scope 1.2 Historical Notes 1.3 Mechanical Fasteners 1.4 Types of Connections 1.5 Design Philosophy 1.6 Approach Taken in this Primer 2 Static Strength of Rivets 2.1 Introduction 2.2 Rivets Subject to Tension 2.3 Rivets in Shear 2.4 Rivets in Combined Tension and Shear 3 Installation of Bolts and Their Inspection 3.1 Introduction 3.2 Installation of High-Strength Bolts 3.2.1 Turn-of-Nut Installation 3.2.2 Calibrated Wrench Installation 3.2.3 Pretensions Obtained using Turn-of-Nut and Calibrated Wrench Methods 3.2.4 Tension-Control Bolts 3.2.5 Use of Direct Tension Indicators 3.3 Selection of Snug-Tightened or Pretensioned Bolts 3.4 Inspection of Installation 3.4.1 General 3.4.2 Joints Using Snug-Tight Bolts 3.4.3 Joints Using Pretensioned Bolts 3.4.4 Arbitration 4 Behavior of Individual Bolts 4.1 Introduction 4.2 Bolts in
AISC 818	DESIGN GUIDE 18: STEEL-FRAMED OPEN-DECK PARKING STRUCTURES	1/4/2003	Provides designers with a complete introductory reference for the design of steel-framed, open-deck parking structures.	Commercial Facilities	Government Facilities	Residential Facilities		

AISC 819	DESIGN GUIDE 19: FIRE RESISTANCE OF STRUCTURAL STEEL FRAMING		Includes the design of fire resistant steel framing, including building code requirements, fire protection methods and materials, standard fire resistance tests, and the associated rating system. Provides detailed guidance for the selection of rated designs for columns, beams, and trusses, complemented with comprehensive design examples and W/D tables for common protection configurations.	Commercial Facilities	Government Facilities	Residential Facilities		
AISC 820	DESIGN GUIDE 20: STEEL PLATE SHEAR WALLS	15/10/2012	Addresses the history and design of steel plate shear walls. Covers design procedures and design examples for steel plate shear walls in both high-seismic and R = 3 applications.	Commercial Facilities	Government Facilities	Residential Facilities		
AISC 821	DESIGN GUIDE 21: WELDED CONNECTIONS - A PRIMER FOR ENGINEERS		Provides a complete overview of topics related to structural welding, including selection of weld types, weld design, metallurgy, weld repair, distortions, weld procedure specifications, thermal cutting, quality, inspection, seismic considerations, economy, and safety.	Commercial Facilities	Government Facilities	Residential Facilities		

AISC 822	DESIGN GUIDE 22: FACADE ATTACHMENTS TO STEEL-FRAMED BUILDINGS		Describes the design of facade attachments to steel-framed buildings. Facade system fundamentals are discussed, along with building performance issues that influence attachment design.	Commercial Facilities	Government Facilities	Residential Facilities		
AISC 824	DESIGN GUIDE 24: HOLLOW STRUCTURAL SECTION CONNECTIONS	15/10/2012	Gives design provisions for various configurations of HSS connections and the applicable limit states.	Commercial Facilities	Government Facilities	Residential Facilities		
AISC 826	DESIGN GUIDE 26: DESIGN OF BLAST RESISTANT STRUCTURES		Gives disseminate knowledge of blast resistance and progressive collapse mitigation to the structural engineering community, presenting basic theory with design examples so engineers can achieve simple and effective designs.	Commercial Facilities	Government Facilities	Residential Facilities		
AISC 827	DESIGN GUIDE 27: STRUCTURAL STAINLESS STEEL	11/9/2013	Gives guidance for the design of structural stainless steel.	Commercial Facilities	Government Facilities	Residential Facilities		
AISC 828	DESIGN GUIDE 28: STABILITY DESIGN OF STEEL BUILDINGS	13/11/2013	Gives innovative methods for stability design, including the introduction of the direct analysis method, aligned with the design provisions in the 2005 AISC Specification for Structural Steel Buildings.	Commercial Facilities	Government Facilities	Residential Facilities		
AISC Design Guide 1	Base Plate and Anchor Rod Design (Second Edition)			Commercial Facilities	Government Facilities	Residential Facilities		

AISC Design Guide 10	Erection Bracing of Low-Rise Structural Steel Frames (See errata listed at end of file.)			Commercial Facilities	Government Facilities	Residential Facilities		
AISC Design Guide 11	Floor Vibrations Due To Human Activity (See errata listed at end of file.)			Commercial Facilities	Government Facilities	Residential Facilities		
AISC Design Guide 12	Modification of Existing Steel Welded Moment Frame Connections for Seismic Resistance			Commercial Facilities	Government Facilities	Residential Facilities		
AISC Design Guide 13	Wide-Flange Column Stiffening at Moment Connections (See errata listed at end of file.)			Commercial Facilities	Government Facilities	Residential Facilities		
AISC Design Guide 14	Staggered Truss Framing Systems			Commercial Facilities	Government Facilities	Residential Facilities		
AISC Design Guide 15	AISC Rehabilitation and Retrofit Guide: A Reference for Historic Shapes and Specifications			Commercial Facilities	Government Facilities	Residential Facilities		
AISC Design Guide 16	Flush and Extended Multiple-Row Moment End-Plate Connections (See errata & addendum at end of file.)			Commercial Facilities	Government Facilities	Residential Facilities		
AISC Design Guide 17	High Strength Bolts--A Primer for Structural Engineers (See errata listed at end of file.)			Commercial Facilities	Government Facilities	Residential Facilities		
AISC Design Guide 18	Steel-Framed Open-Deck Parking Structures			Commercial Facilities	Government Facilities	Residential Facilities		

AISC Design Guide 19	Fire Resistance of Structural Steel Framing			Commercial Facilities	Government Facilities	Residential Facilities		
AISC Design Guide 2	Design of Steel and Composite Beams with Web Openings (See errata listed at end of file.)			Commercial Facilities	Government Facilities	Residential Facilities		
AISC Design Guide 20	Steel Plate Shear Walls			Commercial Facilities	Government Facilities	Residential Facilities		
AISC Design Guide 21	Welded Connections--A Primer for Engineers			Commercial Facilities	Government Facilities	Residential Facilities		
AISC Design Guide 22	Facade Attachments to Steel-Framed Buildings			Commercial Facilities	Government Facilities	Residential Facilities		
AISC Design Guide 23	Constructability of Structural Steel Buildings			Commercial Facilities	Government Facilities	Residential Facilities		
AISC Design Guide 24	Hollow Structural Section Connections			Commercial Facilities	Government Facilities	Residential Facilities		
AISC Design Guide 25	Frame Design Using Web-Tapered Members			Commercial Facilities	Government Facilities	Residential Facilities		
AISC Design Guide 26	Design of Blast Resistant Structures			Commercial Facilities	Government Facilities	Residential Facilities		

AISC Design Guide 27	Structural Stainless Steel			Commercial Facilities	Government Facilities	Residential Facilities		
AISC Design Guide 28	Stability Design of Steel Buildings			Commercial Facilities	Government Facilities	Residential Facilities		
AISC Design Guide 3	Serviceability Design Considerations for Steel Buildings (Second Edition)			Commercial Facilities	Government Facilities	Residential Facilities		
AISC Design Guide 4	Extended End-Plate Moment Connections Seismic and Wind Applications (Second Edition) (See addendum at end of file.)			Commercial Facilities	Government Facilities	Residential Facilities		
AISC Design Guide 5	Design of Low- and Medium-Rise Steel Buildings			Commercial Facilities	Government Facilities	Residential Facilities		
AISC Design Guide 6	Load and Resistance Factor Design of W-Shapes Encased in Concrete (See errata listed at end of file.)			Commercial Facilities	Government Facilities	Residential Facilities		
AISC Design Guide 7	Industrial Buildings--Roofs to Anchor Rods (Second Edition)			Commercial Facilities	Government Facilities	Residential Facilities		
AISC Design Guide 8	Partially Restrained Composite Connections			Commercial Facilities	Government Facilities	Residential Facilities		
AISC Design Guide 9	Torsional Analysis of Structural Steel Members (See errata listed at end of file.)			Commercial Facilities	Government Facilities	Residential Facilities		

AISC G471	STEEL BUILDING SYMPOSIUM: BLAST AND PROGRESSIVE COLLAPSE RESISTANCE		Covers introduction and guidance for the design and construction of blast and progressive collapse resistant steel buildings.	Commercial Facilities	Government Facilities	Residential Facilities		
AISC G472	DETAILING CARDS		Presents a summary of typical detailing dimensions for beams and columns in a convenient format for detailing.	Commercial Facilities	Government Facilities	Residential Facilities		
AISC H050	A FATIGUE PRIMER FOR STRUCTURAL ENGINEERS	1/5/1998	Gives structural engineers with the necessary background to understand and use the current rules for fatigue strength. Fatigue Primer for Structural Engineers examines the fundamentals of fatigue and looks at basic fracture mechanic concepts, fatigue strength analysis, fatigue assessment procedures for variable stress range, distortion-induced fatigue cracking, inspection and repair of fatigue cracks.	Commercial Facilities	Government Facilities	Residential Facilities		

AISC N690	SPECIFICATION FOR SAFETY-RELATED STEEL STRUCTURES FOR NUCLEAR FACILITIES	31/01/2012	Relates to the design of safety-related steel structures and steel elements in nuclear facilities.	Commercial Facilities	Government Facilities	Residential Facilities		SYMBOLS GLOSSARY SPECIFICATION NA. GENERAL PROVISIONS NB. DESIGN REQUIREMENTS NC. DESIGN FOR STABILITY ND. DESIGN OF MEMBERS FOR TENSION NE. DESIGN OF MEMBERS FOR COMPRESSION NF. DESIGN OF MEMBERS FOR FLEXURE NG. DESIGN OF MEMBERS FOR SHEAR NH. DESIGN OF MEMBERS FOR COMBINED FORCES AND TORSION NI. DESIGN OF COMPOSITE MEMBERS NJ. DESIGN OF CONNECTIONS NK. DESIGN OF HSS AND BOX MEMBER CONNECTIONS NL. DESIGN FOR SERVICEABILITY NM. FABRICATION AND ERECTION NN. QUALITY CONTROL AND QUALITY ASSURANCE APPENDIX N1. DESIGN BY INELASTIC ANALYSIS APPENDIX N2. DESIGN FOR PONDING APPENDIX N3. DESIGN FOR FATIGUE APPENDIX N4. STRUCTURAL DESIGN FOR FIRE CONDITIONS APPENDIX N5. EVALUATION OF EXISTING
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AISC P700	GUIDE TO DESIGN CRITERIA FOR BOLTED AND RIVETED JOINTS		Describes the various theories of design, strength, and performance criteria of mechanically fastened joints and also reviews their historical development.	Commercial Facilities	Government Facilities	Residential Facilities		<p>1 Introduction 1.1 Purpose and Scope 1.2 Historical Notes 1.3 Types and Mechanical Properties of Structural Fasteners 2 General Provisions 2.1 Structural Steels 2.2 Types of Connections 2.3 Loads 2.4 Factor of Safety-Load Factor Design 2.5 Bolted and Riveted Shear Splices 2.6 Fatigue 2.7 Fracture 3 Rivets 3.1 Rivet Types 3.2 Installation of Rivets 3.3 Behavior of Individual Fasteners 3.4 Basis for Design Recommendations 4 Bolts 4.1 Bolt Types 4.2 Behavior of Individual Fasteners 4.3 Installation of High-Strength Bolts 4.4 Relaxation 4.5 Reuse of High-Strength Bolts 4.6 Galvanized Bolts and Nuts 4.7 Use of Washers 4.8 Corrosion and Embrittlement 4.9 Effect of Nut Strength 4.10 Basis for Design Recommendations 5 Symmetric Butt Splices 5.1 Joint Behavior up to Slip 5.2 Joint Behavior After Major Slip 5.3 Joint Behavior</p>
AISC S341	Seismic Provisions for Structural Steel Buildings	2010	<p>The AISC 341 standard governs the design, fabrication and erection of structural steel members and connections in the seismic force resisting systems, and splices and bases of columns in gravity framing systems of buildings and other structures with moment frames, braced frames and shear walls.</p> <p>☐</p>					

AISC S360	Specification for Structural Steel Buildings	2010	The AISC 360 standard applies to the design of the structural steel system or systems with structural steel acting compositely with reinforced concrete, where the steel elements are defined in AISC 303, the AISC Code of Standard Practice for Steel Buildings and Bridges.					
AISC V253	THE BEHAVIOR OF STEEL COLUMNS		Gives the behavior of steel columns and educational value for structural and steel classes. Covers physical behavior and a very good relation of behavior to mathematical model.	Commercial Facilities	Government Facilities	Residential Facilities		
AISC V254	THE BEHAVIOR OF UNRESTRAINED STEEL BEAMS		Demonstrates the major physical phenomena that are involved in the response of unrestrained steel beams to loading.	Commercial Facilities	Government Facilities	Residential Facilities		

ANSI/AISC N690	Specification for Safety-Related Steel Structures for Nuclear Facilities	2012	This AISC standard, Specification for Safety-Related Steel Structures for Nuclear Facilities (ANSI/AISC N690-12), dated January 31, 2012, includes both the load and resistance factor design and allowable strength design methods of design, and is a supplement to the AISC 2010 Specification for Structural Steel Buildings. The document applies to the design of safety-related steel structures and steel elements in nuclear facilities and replaces ANSI/AISC N690-06. It has been approved by the AISC Committee on Specifications and it is ANSI-accredited.	Commercial Facilities	Government Facilities	Residential Facilities		
	Prequalified Connections for Special and Intermediate Steel Moment Frames for Seismic Applications			Commercial Facilities	Government Facilities	Residential Facilities		
	RCSC Specification for Structural Joints Using High-Strength Bolts	2009	This specification covers the design of bolted joints and the installation and inspection of fastener assemblies in structural steel connections. The document is maintained by the Research Council on Structural Connections (RCSC) with the participation of AISC.	Commercial Facilities	Government Facilities	Residential Facilities		

	Seismic Provisions for Structural Steel Buildings			Commercial Facilities	Government Facilities	Residential Facilities		
	Specification for Structural Steel Buildings	2012		Commercial Facilities	Government Facilities	Residential Facilities		
AITC 104	TYPICAL CONSTRUCTION DETAILS	5/5/2003	Includes detailed sketches and descriptive information for connections of glued laminated timber members including: beams to masonry; cantilever beams; beam and purlin hangers; beam to columns; column anchorage; arch anchorage; arch connections; truss connections; suspended loading connections. Describes various connections that should be avoided and details the protection of glulam from decay. Recommended for architects, engineers, building officials, timber designers and detailers of glued laminated timber.	Commercial Facilities	Government Facilities	Residential Facilities		1 Introduction 2 Beam to Masonry Anchorages 3 Cantilever Beam Connections 4 Beam and Purlin Hangers for Roof Systems 5 Beam to Column Connections 6 Column Anchorage 7 Arch Anchorages 8 Arch Connections 9 Truss Connections 10 Suspended Loads 11 Details to Protect Against Decay Appendix Connection Details to Be Avoided

AITC 108	STANDARD FOR HEAVY TIMBER CONSTRUCTION	9/5/2002	Describes requirements for the heavy timber rating of columns, floor framing, roof framing, floors, roofs decks, load-bearing and non-load-bearing walls, construction details, and standard dimensions. Recommended for architects, engineers, building officials, timber designers and detailers of glued laminated timber.	Commercial Facilities	Government Facilities	Residential Facilities		
AITC 111	RECOMMENDED PRACTICE FOR PROTECTION OF STRUCTURAL GLUED LAMINATED TIMBER DURING TRANSIT, STORAGE AND ERECTION		Covers recommended practices for using end sealers, surface sealers, wrapping and protection of preservatively treated members, job site storage and erection.	Commercial Facilities	Government Facilities	Residential Facilities		1. INTRODUCTION 2. END SEALERS 3. SURFACE SEALERS 4. WRAPPING 5. PROTECTION FOR PRESERVATIVE TREATED MEMBERS 6. SHIPPING AND HANDLING 7. JOB SITE STORAGE
AITC 112	STANDARD FOR TONGUE-AND-GROOVE HEAVY TIMBER ROOF DECKING	26/11/2003	Applicable to solid sawn tongue-and-groove heavy timber decking. Its provisions are not applicable to laminated timber decking. Discusses species, sizes and patterns, lengths, moisture content, applications, specifications, weights of installed decking and allowable load tables for nominal 2, 3 and 4 inch thickness decking. Recommended for architects, engineers, building officials, timber designers and detailers of timber construction.	Commercial Facilities	Government Facilities	Residential Facilities		INTRODUCTION SPECIES SIZES AND PATTERNS LENGTHS MOISTURE CONTENT APPLICATIONS SPECIFICATIONS WEIGHTS OF INSTALLED DECKING ALLOWABLE LOADS

AITC A190.1	AMERICAN NATIONAL STANDARD, STRUCTURAL GLUED LAMINATED TIMBER		Provides standard criteria for manufacture to certification of structural glued laminated timber.	Commercial Facilities	Government Facilities	Residential Facilities		<p>1 Purpose 2 Scope 3 List of referenced publications 4 Requirements 4.1 General 4.2 Sizes and tolerances 4.3 Grade combinations 4.4 Lumber for laminating 4.5 Adhesives 4.6 Laminating 5 Inspection and test procedures 5.1 General 5.2 Production line tests 5.3 Physical tests 5.4 Qualification tests 5.5 Visual inspection of finished product 5.6 Reinspection 6 Quality control system 6.1 General 6.2 Qualified inspection and testing agency 7 Marking 8 Effective data 9 History of project 10 Definitions</p> <p>Tables 1 Required shear strength of adhesive joints in laminated construction of different species at various moisture content values 2 Summary of physical tests for daily production 3 Summary of qualification tests Appendices A Guide for specifying B Reinspection practices</p>
AISI S100	North American Specification for the Design of Cold-Formed Steel Structural Members	2012	The AISI S100 standard applies to the design of structural members cold-formed to shape from carbon or low-alloy steel sheet, strip, plate, or bar not more than 1 in. (25.4 mm) in thickness and used for load-carrying purposes in buildings and structures other than buildings provided allowances are made for dynamic effects.	Commercial Facilities	Government Facilities	Residential Facilities		

AISI S110	Standard for Seismic Design of Cold-Formed Steel Structural Systems – Special Bolted Moment Frames	2012	AISI S110 standard applies to the design and construction of cold-formed steel members and connections in seismic force resisting systems (SFRS) in buildings and other structures. The scope of AISI S110 is currently limited to special bolted moment frames in structures 1 story in height.	Commercial Facilities	Government Facilities	Residential Facilities		
AISI S200	North American Standard for Cold-Formed Steel Framing – General Provisions	2012		Commercial Facilities	Government Facilities	Residential Facilities		
AISI S210	North American Standard for Cold-Formed Steel Framing – Floor and Roof System Design	2012		Commercial Facilities	Government Facilities	Residential Facilities		
AISI S210	North American Standard for Cold-Formed Steel Framing – Header Design	2012		Commercial Facilities	Government Facilities	Residential Facilities		
AISI S211	North American Standard for Cold-Formed Steel Framing – Wall Stud Design	2012		Commercial Facilities	Government Facilities	Residential Facilities		
AISI S212	North American Standard for Cold-Formed Steel Framing – Lateral Design	2012		Commercial Facilities	Government Facilities	Residential Facilities		
AISI S213	North American Standard for Cold-Formed Steel Framing – Lateral Design	2012		Commercial Facilities	Government Facilities	Residential Facilities		
AISI S214	North American Standard for Cold-Formed Steel Framing – Truss Design	2012		Commercial Facilities	Government Facilities	Residential Facilities		
AISI S220	North American Standard for Cold-Formed Steel Framing – Nonstructural Members	2011		Commercial Facilities	Government Facilities	Residential Facilities		

AISI S230	Standard for Cold-Formed Steel Framing – Prescriptive Method for One and Two Family Dwellings	2012		Commercial Facilities	Government Facilities	Residential Facilities		
AISI S310	North American Standard for the Design of Profiled Steel Diaphragm Panels	2013	AISI S310 standard applies to diaphragms and wall diaphragms that contain profiled steel panels, which include fluted panels or deck, and cellular deck.	Commercial Facilities	Government Facilities	Residential Facilities		
ANSI A 300 Part 1	Pruning	2008	Pruning of trees to reduce risk ; Pruning of trees to restore damaged trees; Utility pruning (line clearance tree trimming of utility distribution infrastructure)	Energy	Commercial Facilities	Residential Facilities	Government Facilities	
ANSI A 300 Part 7	Integrated Vegetation Management (IVM)	2012	Addresses rights-of-way (ROW) vegetation management using IVM principles under and around utility transmission infrastructure.	Energy				
ANSI A 300 Part 9	Tree Risk Assessment	2011	Addresses performance of tree structure risk assessments (applicable both before and after damaging weather events).	Commercial Facilities	Residential Facilities	Government Facilities		

ANSI A10.26

EMERGENCY PROCEDURES
FOR CONSTRUCTION AND
DEMOLITION SITES

1/2/2012

Pertains to those emergency procedures involving: 1) fires, collapses, hazardous spills and other emergencies that could endanger workers; 2) emergency rescue of injured or ill workers or other persons or of uninjured workers unable to rescue themselves; 3) onsite provision of first aid and emergency medical care; 4) evacuation and transportation of injured or ill workers to appropriate emergency medical facilities; 5) pre-planning and coordination of emergency plan with emergency medical facilities; 6) training on emergency procedures/plans for workers and other groups.

Emergency Services

1. General 2. Referenced Standards
3. Definitions 4. Pre-Planning and
Coordination 5. Emergency/Incident
Management 6. First Aid and
Emergency Medical Care 7.
Appendices Appendices: 1
Emergency Action Plan 2 Rescue
Hazard Analysis (RHA) Matrix 3
Emergency Rescue Procedures 4
Incident Management System 5
Critical Incident Stress Management

ANSI N323c	Radiation Protection Instrumentation Test and Calibration - Air Monitoring Instruments	6/11/2009	Describes test and calibration requirements for air monitoring instruments used for detection and measurement of airborne radioactive substances. The appendices of this standard provide reference information.	Nuclear Reactors, Materials, and Waste				<ul style="list-style-type: none"> 1. Overview 1.1 Scope 1.2 Purpose 1.3 Special word usage 2. Relationship to other standards 3. Definitions 4. Program elements <ul style="list-style-type: none"> 4.1 Type testing 4.2 Acceptance testing 4.3 Initial calibration 4.4 Functional checks 4.5 Maintenance and recalibration 4.6 Performance tests 5. Air flow rate calibrations 6. Instrument calibrations <ul style="list-style-type: none"> 6.1 Pre-calibration inspection 6.2 As-found readings 6.3 Electronic calibration 6.4 Meters and chart recorders 6.5 Background response verification 6.6 Calibration of background subtraction 6.7 Alarm circuit verification 6.8 Radiological calibration 7. Additional calibration requirements for particulate
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ANSI N42.43	American National Standard Performance Criteria for Mobile and Transportable Radiation Monitors used for Homeland Security	23/4/2007	Describes the operational and performance requirements for transportable and/or mobile radiation monitors used in homeland security applications.	Nuclear Reactors, Materials, and Waste				<ul style="list-style-type: none"> 1 Overview 1.1 Scope 1.2 Purpose 2 Normative references 3 Definitions 3.1 General 3.2 Definitions of particular relevance to ANSI N42.43 4 General considerations 4.1 Evaluation of monitors 4.2 Meeting performance specifications 4.3 Units and uncertainties 4.4 Special word usage 4.5 Standard test conditions 4.6 Tests performed under standard test conditions 4.7 Tests performed with variation of influence quantities 4.8 Statistical fluctuations 5 Design requirements 5.1 General characteristics 5.2 Physical configuration 5.3 Data storage 5.4 Indication features 5.5 Occupancy and speed sensors for vehicle monitors
ANSI S3.41	AUDIBLE EMERGENCY EVACUATION SIGNAL	11/11/2008	Applicable to an audible emergency evacuation signal.	Emergency Services				<ul style="list-style-type: none"> 1 SCOPE 2 PURPOSE 3 APPLICATIONS 4 STANDARDS REFERRED TO IN THIS STANDARD 5 REQUIREMENTS FOR THE AUDIBLE EMERGENCY EVACUATION SIGNAL 5.1 Temporal Pattern 5.2 Recognition 5.3 Sound Pressure Level 5.4 Duration 5.5 Supplementary Instructions 6 VISUAL AND/OR TACTILE SIGNALS APPENDIX: EXAMPLE OF THE APPLICATION OF THE TEMPORAL PATTERN TO AUDIBLE SIGNALS

ANSI X9.101	Securities and related financial instruments - International securities identification numbering systems (ISIN)	2003	Specifies uniform structure for international securities identification numbers (ISINs). It is intended for use in any application in the trading and administration of securities and other financial instruments.	Financial Services				<p>Foreword</p> <p>Introduction</p> <p>1 Scope</p> <p>2 Normative references</p> <p>3 Term and definition</p> <p>4 Principles</p> <p>5 ISIN allocation</p> <p>5.1 Countries where a numbering agency exists</p> <p>5.2 Countries where no numbering agency exists</p> <p>5.3 Existing ISINs and existing securities without ISINs</p> <p>5.4 Application for ISIN</p> <p>5.5 Exchange of information</p> <p>6 Registration authority</p> <p>7 Information and enquiries</p> <p>Annex A (normative) Formula for computing modulus 10</p> <p>"Double-Add-Double" check digit</p> <p>Annex B (normative) Competence of numbering agencies</p> <p>Annex C (normative) Minimum information</p> <p>Annex D (informative) Examples</p>
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ANSI X9.105-3	Financial transaction card originated messages - Interchange message specifications - Part 3: Maintenance procedures for messages, data elements and code values	2003	Establishes the role of the maintenance agency (MA) and specifies the procedures for adding messages and data elements to codes listed in Annex A of X9.105.	Financial Services				<p>Foreword</p> <p>1 Scope</p> <p>2 Normative references</p> <p>3 Terms and definitions</p> <p>4 Application procedures</p> <p>4.1 Application procedure for changes to ISO 8583-1</p> <p>4.2 Criteria for approval of an application for changes to ISO 8583-1</p> <p>5 Appeal process</p> <p>5.1 Appeal bodies</p> <p>5.2 Information to be provided</p> <p>6 Balloting process</p> <p>7 Sponsoring authority</p> <p>7.1 Eligibility to become a sponsoring authority</p> <p>7.2 Responsibilities</p> <p>8 Registration and maintenance management group (RMMG)</p> <p>8.1 Constitution</p> <p>8.2 Responsibilities</p> <p>8.3 Voting procedures</p> <p>9 Maintenance Agency</p> <p>9.1 Appointment</p> <p>9.2 Resignation</p> <p>9.3 Responsibilities</p>
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ANSI X9.106	Retail Financial Services - Merchant Category Codes	17/12/2003	Specifies code values used to enable the classification of merchants into specific categories based on the type of business, trade or services supplied. Also establishes the procedures for a Registration and Maintenance Management Group (RMMG), which considers requests for new code values, and a Maintenance Agency (MA), which provides the administrative procedures required to maintain an up-to-date list of codes.	Financial Services				<p>Foreword</p> <p>1 Scope</p> <p>2 Terms and definitions</p> <p>3 Merchant category codes</p> <p>4 Application for code value additions, changes and deletions</p> <p>4.1 Application procedure</p> <p>4.2 Criteria for approval of a new merchant category code</p> <p>4.3 Criteria for approval of a merchant category code change or deletion</p> <p>5 Registration and Maintenance Management Group (RMMG)</p> <p>5.1 Constitution</p> <p>5.2 Responsibilities</p> <p>5.3 Voting procedures</p> <p>6 Maintenance Agency (MA)</p> <p>6.1 Appointment</p> <p>6.2 Resignation</p> <p>6.3 Responsibilities</p> <p>7 Appeal process</p> <p>7.1 Appeal bodies</p> <p>7.2 Information to be provided</p> <p>8 Publication of changes to ISO 18245</p> <p>Annex A (normative) Merchant</p>
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ANSI X9.30-1

Public Key Cryptography
Using Irreversible Algorithms
Part 1: The Digital Signature
Algorithm (DSA)

30/1/1997

Defines a method for digital
signature (signature)
generation and verification
for the protection of
messages and data using the
Digital Signature Algorithm
(DSA).

Information Technology

FOREWORD
1 SCOPE
2 DEFINITIONS AND COMMON
ABBREVIATIONS
2.1. DEFINITIONS
2.2. COMMON ABBREVIATIONS AND
ACRONYMS
3 APPLICATION
3.1. GENERAL
3.2. THE USE OF THE DSA
ALGORITHM
4 THE DIGITAL SIGNATURE
ALGORITHM (DSA)
4.1. DSA PARAMETERS
4.2. CONTROL OF KEYING MATERIAL
4.3. SIGNATURE GENERATION
4.4. SIGNATURE VERIFICATION
ANNEX A: GENERATION OF PRIMES
FOR THE DSA
A.1. INTRODUCTION
A.2. A PROBABILISTIC PRIMALITY
TEST
A.3. GENERATION OF PRIMES
ANNEX B: RANDOM NUMBER
GENERATION FOR THE DSA
B.1. INTRODUCTION
B.2. ALGORITHMS

ANSI X9.30-2	Public Key Cryptography Using Irreversible Algorithms - Part 2: The Secure Hash Algorithm (SHA-1)	6/1/1997	The Secure Hash Algorithm (SHA-1) is required for use with the Digital Signature Algorithm and may be used whenever a secure hash algorithm is required.	Information Technology				<p>FOREWORD</p> <p>1. SCOPE</p> <p>2. DEFINITIONS AND COMMON ABBREVIATIONS</p> <p>2.1. DEFINITIONS</p> <p>2.2. ABBREVIATIONS AND ACRONYMS AND OPERATIONS ON WORDS</p> <p>2.2.1. Abbreviations and Acronyms</p> <p>2.2.2. Operations On Words</p> <p>2.3. BIT STRINGS AND INTEGERS</p> <p>3. THE SECURE HASH ALGORITHM (SHA-1)</p> <p>3.1. MESSAGE PADDING</p> <p>3.2. FUNCTIONS AND CONSTANTS USED</p> <p>3.3. COMPUTING THE MESSAGE DIGEST</p> <p>3.4. ALTERNATIVE METHOD OF COMPUTATION</p> <p>3.5. COMPARISON OF METHODS</p> <p>3.6. COMPUTATIONAL EXAMPLES</p> <p>ANNEX A: FIRST SAMPLE MESSAGE AND ITS MESSAGE DIGEST</p> <p>ANNEX B: A SECOND SAMPLE MESSAGE AND ITS MESSAGE DIGEST</p> <p>ANNEX C: A THIRD SAMPLE</p>
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ANSI X9.42	Public Key Cryptography for the Financial Services Industry: Agreement of Symmetric Keys Using Discrete Logarithm Cryptography	19/11/2003	Describes schemes for the agreement of symmetric keys using Diffie-Hellman and MQV algorithms. It covers methods of domain parameter generation, domain parameter validation, key pair generation, public key validation, shared secret value calculation, key derivation, and test message authentication code computation for discrete logarithm problem based key agreement schemes.	Information Technology				1 SCOPE 2 NORMATIVE REFERENCES 3 DEFINITIONS 4 SYMBOLS AND ABBREVIATIONS 4.1 SYMBOLS 4.2 ABBREVIATIONS 5 ORGANIZATION 6 APPLICATION 7 BASIC ALGORITHMS, FUNCTIONS, AND CONVERSION RULES 7.1 DOMAIN PARAMETER GENERATION 7.2 DOMAIN PARAMETER VALIDATION 7.3 PRIVATE/PUBLIC KEY GENERATION 7.4 PUBLIC KEY VALIDATION 7.5 CALCULATION OF SHARED SECRET ELEMENTS 7.6 DATA CONVERSION RULES 7.7 KEY DERIVATION FROM A SHARED SECRET VALUE 7.8 MAC COMPUTATION 7.9 ANSI X9.42 IMPLEMENTATION VALIDATION 8 KEY AGREEMENT SCHEMES 8.1 KEY AGREEMENT USING THE
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ANSI X9.5	Financial Institution Numbering System (FINS)	2/8/2001	Provides specifications for identifying an institution in a securities transaction by means of a FINS number. Serves as the common denominator in communications among users for completion of transactions and exchange of information. Specifies both the configuration of the number and the meaning attached to each portion. Intends that the FINS number be used for all comparisons, deliveries, and similar transactions involving securities-processing organizations.	Financial Services				<p>Foreword</p> <p>1 Introduction</p> <p>2 Scope and Field of Application</p> <p>3 Definitions</p> <p>4 Configuration of the FINS Number</p> <p>4.1 Industry Code</p> <p>4.2 Institution Code</p> <p>5 Issuance of Number</p> <p>6 Maintenance</p> <p>7 Procedures for the Maintenance of the Fins</p> <p>7.1 Functions of the Maintenance Agency</p> <p>7.2 Responsibilities of the Sponsor</p> <p>7.3 Publication and dissemination of information</p>
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ANSI X9.63	Public Key Cryptography for the Financial Services Industry, Key Agreement and Key Transport Using Elliptic Curve Cryptography	21/12/2011	Describes key establishment schemes that employ asymmetric cryptographic techniques.	Information Technology				X9 MEMBER ORGANIZATION REPRESENTATIVE X9F MEMBER ORGANIZATION REPRESENTATIVE X9F1 MEMBER ORGANIZATION REPRESENTATIVE 1 SCOPE 2 DEFINITIONS, ABBREVIATIONS AND REFERENCES 3 APPLICATION 4 MATHEMATICAL CONVENTIONS 5 CRYPTOGRAPHIC INGREDIENTS 6 KEY AGREEMENT SCHEMES 7 KEY TRANSPORT SCHEMES ANNEX A (NORMATIVE) - NORMATIVE NUMBER-THEORETIC ALGORITHMS ANNEX B (INFORMATIVE) - MATHEMATICAL BACKGROUND ANNEX C (INFORMATIVE) - TABLES OF TRINOMIALS, PENTANOMIALS, AND GAUSSIAN NORMAL BASES ANNEX D (INFORMATIVE) - INFORMATIVE NUMBER-THEORETIC ALGORITHMS ANNEX E (INFORMATIVE) - COMPLEX
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ANSI X9.79-1

FINANCIAL SERVICES PUBLIC
KEY INFRASTRUCTURE - PART
1: PKI PRACTICES AND POLICY
FRAMEWORK

23/1/2001

Defines the components of a
PKI and sets a framework of
practices and policy
requirements for a PKI.

Financial Services

1 SCOPE OF THIS STANDARD
2 NORMATIVE REFERENCE(S)
3 DEFINITIONS
4 SYMBOLS (AND ABBREVIATIONS)
5 ORGANIZATION
6 PKI CERTIFICATE POLICY AND
CERTIFICATION
PRACTICE STATEMENT
7 GENERAL REQUIREMENTS
ANNEX A (NORMATIVE) - ELEMENTS
OF POLICY AND PRACTICE
ANNEX B (NORMATIVE) -
CERTIFICATION AUTHORITY
CONTROL OBJECTIVES
ANNEX C (INFORMATIVE) - X.509
CERTIFICATE FIELDS
ANNEX D (INFORMATIVE) -
BIBLIOGRAPHY
ANNEX E (INFORMATIVE) - OBJECT
IDENTIFIERS (OID)

ANSI X9.80	Prime Number Generation, Primality Testing, and Primality Certificates	15/8/2005	Defines methods for generating large prime numbers as needed by public key cryptographic algorithms. It also provides testing methods for testing candidate primes presented by a third party. It allows primes to be generated either deterministically or probabilistically, where: - A number shall be accepted as prime when a probabilistic algorithm that declares it to be prime is in error with probability less than 2^{-100} . - A deterministic prime shall be generated using a method that guarantees that it is prime.	Information Technology				Foreword Tables Introduction 1 Scope 2 Normative references 3 Terms and definitions 4 Symbols and abbreviated terms 5 Prime Generation Methods 5.1 General Discussion 5.2 Generation of Primes Using Random Integers 5.2.1 Generation of Random Primes with Sequential Search 5.2.2 Generation of Random Primes with Uniform Distribution 5.2.3 Testing Using Probabilistic Methods 5.2.4 Testing Using Deterministic Methods 5.3 Constructive Methods 5.3.1 Shawe-Taylor's Algorithm 5.3.2 Maurer's Algorithm 5.4 Side Conditions for Generating Primes using Random integers 6 Candidate Prime Testing Methods 7 Tables of Parameters 7.1 Rounds Required for Miller-
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ANSI X9.8-1

BANKING - PERSONAL IDENTIFICATION NUMBER MANAGEMENT AND SECURITY - PART 1: PIN PROTECTION PRINCIPLES AND TECHNIQUES FOR ONLINE PIN VERIFICATION IN ATM & POS SYSTEMS

21/3/2003

Specifies: a) Basic principles and techniques which provide the minimum security measures required for effective international PIN management; b) PIN protection techniques applicable to financial transaction card originated transactions in an online environment and a standard means of interchanging PIN data.

Financial Services

Foreword
Tables
Introduction
1 Scope
2 Normative references
3 Definitions
4 Basic principles of PIN management
5 PIN entry devices
5.1 Character set
5.2 Character representation
5.3 PIN entry
5.4 Packaging considerations
6 PIN security issues
6.1 PIN control requirements
6.1.1 Hardware and software
6.1.2 Recording media
6.1.3 Oral communications
6.1.4 Telephone keypads
6.2 PIN encipherment
6.3 Physical security
6.3.1 Physical security for PIN entry devices
6.3.2 Physically secure device
6.3.3 Physically secure environment
6.3.4 PIN entry device requirements
7 Techniques for

ANSI X9.82-1	Random Number Generation Part 1: Overview and Basic Principles	26/7/2006	Defines techniques for the generation of random numbers that shall be used whenever ASC X9 Standards require the use of a random number or bitstring for cryptographic purposes.	Information Technology				Foreword Introduction 1 Scope 2 Conformance 3 Normative references 4 Terms and definitions 5 Symbols and Abbreviations 6 General Discussion 6.1 Overview of Document 6.2 The Need for Random Numbers 6.3 Examples of Cryptographic Use of Random Numbers 7 Overview of Random Bit Generators 7.1 Secure RBG 7.2 Idealized Coin Flipping - The Canonical RBG 7.2.1 Coin Flipping Preliminaries 7.2.2 Properties of Idealized Coin Flipping 7.2.3 Possible Problems with Actual Coin Flipping 7.2.4 von Neumann Unbiasing 7.3 Random Bit Generation Functional Model 7.3.1 Entropy Source 7.3.2 Algorithmic Processing
ANSI Z535	COLOR CHART	19/9/2011	Provides a 2011 designation with updated and corrected information concerning ink specifications for the Z535 safety colors.	Communications				
ANSI Z535 SET	ANSI Z535 SET	19/9/2011	Contains all six Z535 standards and color chart.	Communications				Set includes ANSI Z535.1, ANSI Z535.2, ANSI Z535.3, ANSI Z535.4, ANSI Z535.5, ANSI Z535.6 & ANSI Z535 Color Chart. (02/2011)

ANSI Z535.3	Criteria for safety symbols	19/9/2011	Specifies general criteria for the design, evaluation, and use of safety symbols to identify and warn against specific hazards, and to provide information to avoid personal injury.	Communications				<p>Foreword</p> <p>1 Introduction</p> <p>2 Scope and purpose</p> <p>3 Application</p> <p>4 Definitions</p> <p>5 Safety symbol types, surround shapes, and colors</p> <p>6 Graphic design considerations</p> <p>7 Safety symbol selection criteria</p> <p>8 Normative references</p> <p>Annexes</p> <p>A - Principles and Guidelines for Graphical Design of Safety Symbols</p> <p>B - General Procedures for Evaluating Candidate Safety Symbols</p> <p>C - Informative References</p>
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ANSI Z535.4	PRODUCT SAFETY SIGNS AND LABELS	19/9/2011	Defines specifications for design, application, use, and placement of safety signs and labels on a wide variety of products. A new type of product safety sign, the "safety instruction sign," was added to join the existing types of signs, hazard alerting signs, and safety notice signs, which were also more clearly defined and named in this edition.	Communications				<p>Foreword</p> <p>1 Introduction</p> <p>2 Scope and Purpose</p> <p>3 Application and exceptions</p> <p>4 Definitions</p> <p>5 Use of signal words</p> <p>6 Sign or label format</p> <p>7 Safety sign and label colors</p> <p>8 Letter style and size</p> <p>9 Sign and label placement</p> <p>10 Expected life and maintenance</p> <p>11 Safety symbols</p> <p>12 References</p> <p>Annexes</p> <p>A - Providing Information About Safety Messages in Collateral Materials and Product Safety Signs and Labels</p> <p>B - Principles and Guidelines for the Design of Product Safety Signs and Labels</p> <p>C - The Use of ISO Safety Signs for Products</p> <p>D - Translations of Signal Words</p> <p>E - Risk Estimation and Signal Word Selection</p>
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ANSI Z535.5	SAFETY TAGS AND BARRICADE TAPES (FOR TEMPORARY HAZARDS)	19/9/2011	Defines requirements for the design, application, and use of safety tags and barricade tapes for temporary hazards.	Communications				<p>Foreword</p> <p>1 Introduction</p> <p>2 Scope and purpose</p> <p>3 Definitions</p> <p>4 Safety tags and barricade tape classifications</p> <p>5 Tag and tape format and color criteria</p> <p>6 Tag location, attachment methods, life expectancy, and authorization</p> <p>7 Letter style, viewing distance, tag size and shape</p> <p>8 Safety symbols</p> <p>9 References</p> <p>Annexes</p> <p>A - Principles and Guidelines for the Design of Safety Tags and Barricade Tapes</p> <p>B - Previous Formats for Signal Word Panels</p> <p>C - Risk Estimation and Signal Word Selection</p> <p>D - Information References</p>
ANSI Z535.6	PRODUCT SAFETY INFORMATION IN PRODUCT MANUALS, INSTRUCTIONS, AND OTHER COLLATERAL MATERIALS	19/9/2011	Defines requirements for the design and location of product safety messages in collateral materials for a wide variety of products.	Communications				<p>Foreword</p> <p>1 Introduction</p> <p>2 Scope and purpose</p> <p>3 Application and exceptions</p> <p>4 Definitions</p> <p>5 Message components</p> <p>6 Supplemental directives</p> <p>7 Grouped safety messages</p> <p>8 Section safety messages</p> <p>9 Embedded safety messages</p> <p>10 Property damage messages</p> <p>11 References</p> <p>Annexes</p> <p>A - Providing Information About Safety Messages in Collateral Materials and Product Safety Signs and Labels</p> <p>B - Translations of Signal Words</p> <p>C - Risk Estimation and Signal Word Selection</p>

ANS 15.16	Emergency Planning for Research Reactors	23/9/2008	Provides the approach to coping with emergencies and minimizing the consequences of accidents at research reactor facilities.	Nuclear Reactors, Materials, and Waste				
ANS 2.15	Criteria for Modeling and Calculating Atmospheric Dispersion of Routine Radiological Releases from Nuclear Facilities	In development		Nuclear Reactors, Materials, and Waste				
ANS 2.17	Evaluation of Subsurface Radionuclide Transport at Commercial Nuclear Power Plants	2010		Nuclear Reactors, Materials, and Waste				
ANS 2.27	Criteria for Investigations of Nuclear Facility Sites for Seismic Hazard Assessments	31/7/2008	Provides standard criteria and procedures to collect data needed as input to probabilistic analysis of seismic hazards at nuclear facilities as specified in ANSI/ANS-2.29-2008, "Probabilistic Seismic Hazards Analysis".	Nuclear Reactors, Materials, and Waste				
ANS 2.29	Probabilistic Seismic Hazard Analysis	2008		Nuclear Reactors, Materials, and Waste				
ANS 2.3	Estimating Tornado, Hurricane, and Extreme Straight Line Wind Characteristics at Nuclear Facility Sites	2011		Nuclear Reactors, Materials, and Waste				
ANS 2.8	Determining Design Basis Flooding at Power Reactor Sites	withdrawn - in Revision		Nuclear Reactors, Materials, and Waste				

ANS 58.3	Physical Protection for Nuclear Safety-Related Systems and Components	1992. Reapproved in 2008	Describes physical protection criteria important to safety in nuclear power generating stations that are either LWR or HTGR. Includes an identification of potential hazards to systems and components important to safety, and an acceptable means of insuring the protection of this equipment.	Nuclear Reactors, Materials, and Waste				
ANS2.30	Assessing Capability for Surface Faulting at Nuclear Facilities	In development		Nuclear Reactors, Materials, and Waste				
ANSI/ANS 3.11	Determining Meteorological Information at Nuclear Facilities	2010		Nuclear Reactors, Materials, and Waste				
ANSI/ANS 3.8.2	Criteria for the Functional and Physical Characteristics of Radiological Emergency Response Facilities	withdrawn - in Revision		Nuclear Reactors, Materials, and Waste				
ANSI/ANS 3.8.3	Criteria for Radiological Emergency Response Plans and Implementing Procedures	withdrawn - in Revision		Nuclear Reactors, Materials, and Waste				
ANSI/ANS 3.8.7	Criteria for Planning, Development, Conduct, and Evaluation of Drills and Exercises for Emergency Preparedness	withdrawn - in Revision		Nuclear Reactors, Materials, and Waste				

API 1133	GUIDELINES FOR ONSHORE HYDROCARBON PIPELINES AFFECTING HIGH CONSEQUENCE FLOODPLAINS	1/2/2010	Provides criteria for the design, construction, operation, maintenance and abandonment of onshore pipelines that could affect high consequence floodplains and associated commercially navigable waterways. It applies only to steel pipelines that transport gas, hazardous liquids, alcohols or carbon dioxide.	Energy	Transportation Systems			1 SCOPE 2 REFERENCES 3 DEFINITIONS 4 DESIGN 4.1 Route Selection 4.2 Construction Methods 4.3 Material Specifications for Trenched and Drilled Crossings 4.4 Valves 5 CONSTRUCTION 5.1 Environmental Considerations 5.2 Safety 5.3 Selecting a Contractor 5.4 Accessibility 5.5 Pipe Handling 5.6 Space Considerations 5.7 Welding 5.8 Inspection and Testing 5.9 As-built Drawings 5.10 Site Restoration 5.11 Construction Completion 6 OPERATION 6.1 System Guidelines 6.2 Pipeline Operations 6.3 Emergency Plan 6.4 Restoration 7 MAINTENANCE 7.1
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API 1160	MANAGING SYSTEM INTEGRITY FOR HAZARDOUS LIQUID PIPELINES	1/9/2013	Pertains to pipeline systems used to transport "hazardous liquids" as defined in U.S. Title 49 CFR Part 195.2.	Energy	transportation Systems			1 Scope 2 Normative References 3 Terms, Definitions, Acronyms, and Abbreviations 4 Integrity Management Program 5 Identifying Critical Locations with Respect to the Consequences of a Release 6 Gathering, Reviewing, and Integrating Data 7 Risk Assessment Implementation 8 Integrity Assessment and Remediation 9 Reassessment Frequencies 10 Preventive and Mitigative Measures to Assure Pipeline Integrity 11 Integrity Management of Pump Stations and Facility Piping 12 Program Evaluation 13 Management of Change Annex A (normative) - Threats to Pipeline Integrity Annex B (informative) - In-line Inspection Technologies Annex C (informative) - Repair Strategies Annex D (normative) - Calculating Reassessment Intervals Annex F (informative) - Leak Detection Methods Bibliography
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API 14E	RECOMMENDED PRACTICE FOR DESIGN AND INSTALLATION OF OFFSHORE PRODUCTION PLATFORM PIPING SYSTEMS	1/1/2013	Recommends minimum requirements and guidelines for the design and installation on new piping systems on offshore production platforms. Includes general recommendations on design and application of pipe, valves and fittings for typical processes; general information on installation, quality control and items related to piping systems such as insulation; and specific recommendations for the design of particular piping systems.	Energy	transportation Systems			Policy Foreword Definitions Symbols Section 1 - General Scope Code for pressure piping Policy Industry codes, guides and standards American Iron and Steel Institute American National Standards Institute American Petroleum Institute American Society for Testing and Materials National Association of Corrosion Engineers National Fire Protection Association Gas Processors Suppliers Association Hydraulics Institute Governmental rules and regulations Demarcation between systems with different pressure ratings Corrosion considerations General
API 2508	DESIGN AND CONSTRUCTION OF ETHANE AND ETHYLENE INSTALLATIONS AT MARINE AND PIPELINE TERMINALS, NATURAL GAS PROCESSING PLANTS REFINERIES, PETROCHEMICAL PLANTS AND TANK FARMS	Cancelled		Energy				

API 2510	DESIGN AND CONSTRUCTION OF LPG INSTALLATIONS	1/10/2011	Describes the design, construction, and location of liquefied petroleum gas (LPG) installations at marine and pipeline terminals, natural gas processing plants, refineries, petrochemical plants and tank farms.	Energy	Transportation Systems		<ul style="list-style-type: none"> 1 Scope 1.1 Retroactivity 1.2 Characteristics of LPG 1.3 Safety 2 Referenced Publications 3 Terms and Definitions 4 Design of LPG vessels 4.1 Applicable Design Construction Codes 4.2 Design Pressure and Temperature 4.3 Design Vacuum 4.4 Materials of Construction 4.5 Vessel Connections 4.6 Previously Constructed Vessels 5 Siting Requirements and Spill Containment 5.1 Siting 5.2 Drainage 5.3 Spill Containment 5.4 Remote Impoundment 5.5 Diking 6 Foundations and Supports for LPG Storage vessels and Related Piping 6.1 Applicable Codes and Specifications
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API 353	MANAGING SYSTEMS INTEGRITY OF TERMINAL AND TANK FACILITIES - MANAGING THE RISK OF LIQUID PETROLEUM RELEASES	1/11/2006	Describes the issues of overall risk management, risk assessment, risk ranking, risk mitigation, and the performance measures applicable to an overall integrity management program.	Energy	Transportation Systems			1. INTRODUCTION AND OBJECTIVES 1.1 PURPOSE 1.2 SCOPE 1.3 TARGET AUDIENCE 1.3.1 How to Use This Document 1.3.2 Roles and Responsibilities 1.3.3 Training and Qualifications 1.3.4 Governmental Requirements 1.4 APPLICABLE FACILITIES 1.4.1 Petroleum Terminals 1.4.2 Pipeline Tankage Facilities 1.4.3 Bulk Plants 1.4.4 Lube Blending and Packaging Facilities 1.4.5 Asphalt Facilities 1.4.6 Aviation Service Facilities 1.4.7 Overlapping Facilities Coverage 1.4.8 Non-applicable Facilities 2. TERMS, DEFINITIONS, AND ACRONYMS 2.1 TERMS AND DEFINITIONS 2.2 ACRONYMS 3. REFERENCES AND STANDARDS 4. BASIC CONCEPTS OF RISK 4.1 PRINCIPLES AND PHILOSOPHY OF RISK 4.1.1 What Is Risk? 4.1.2 Likelihood of Occurrence 4.1.3 Consequence of Occurrence 4.1.4 Risk 4.2 RISK SCORING
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API 620

DESIGN AND CONSTRUCTION
OF LARGE, WELDED, LOW-
PRESSURE STORAGE TANKS

Describes large, field-
assembled storage tanks of
the type that contain
petroleum intermediates
(gases or vapors) and
finished products, as well as
other liquid products
commonly handled and
stored by the various
branches of the industry.

Energy

1 Scope
2 References
3 Definitions
4 Materials
5 Design
6 Fabrication
7 Inspection, Examination and
Testing
8 Marking
9 Pressure- and Vacuum-relieving
Devices
Annex A (informative) - Inquiries and
Suggestions
for Change
Annex B (normative) - Use of
Materials That are Not
Identified with Listed Specifications
Annex C (informative) - Suggested
Practice Regarding
Foundations
Annex D (informative) - Suggested
Practice Regarding
Supporting Structures
Annex E (informative) - Suggested
Practice Regarding
Attached Structures (Internal and
External)

API 650	WELDED TANKS FOR OIL STORAGE	1/7/2013	Describes minimum requirements for material, design, fabrication, erection, and testing for vertical, cylindrical, aboveground, closed- and open-top, welded storage tanks in various sizes and capacities for internal pressures approximating atmospheric pressure (internal pressures not exceeding the weight of the roof plates), but a higher internal pressure is permitted when additional requirements are met.	Energy				1 Scope 2 Normative References 3 Terms and Definitions 4 Materials 5 Design 6 Fabrication 7 Erection 8 Methods of Examining Joints 9 Welding Procedure and Welder Qualifications 10 Marking Annex A (normative) - Optional Design Basis for Small Tanks Annex AL (normative) - Aluminum Storage Tanks Annex B (informative) - Recommendations for Design and Construction of Foundations for Aboveground Oil Storage Tanks Annex C (normative) - External Floating Roofs Annex D (informative) - Inquiries and Suggestions for Change Annex E (normative) - Seismic Design of Storage Tanks Annex EC (informative) -
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API SECURITY GUIDELINES	SECURITY GUIDELINES FOR THE PETROLEUM INDUSTRY	1/4/2005	Describes general guidance to owners and operators of U.S. domestic petroleum assets for effectively managing security risks and provide a reference of certain applicable Federal security laws and regulations that may impact petroleum operations.	Energy				<p>Executive Summary 1.0 Introduction 1.1 Scope and Objective 1.2 Organization of the Document 1.3 Underlying Basis of this Guidance 1.4 Other Guidelines and Security References 2.0 Overview of Terrorism and the Petroleum Industry 2.1 Background on Terrorism and Security 2.2 Threat to the Petroleum Industry 3.0 Threat Assessment 3.1 The Value of Threat Assessment 3.2 Threat Assessment Process 3.3 Security Alert Level Systems 3.3.1 Introduction 3.3.2 Department of Homeland Security Alert System (HSAS) 3.3.3 U.S. Coast Guard Maritime Security Levels 3.3.4 International Ship and Port Facility Security (ISPS) Alert Levels 4.0 The Security Management System Process 4.1 Initial Screening 4.2 Data Gathering 4.3 Initial SVA 4.4 Example Elements of a Security Plan 4.4.1 Security Administration & Organization of</p>
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ANSI/ASIS SPC.1	Organizational Resilience: Security, Preparedness and Continuity Management Systems - Requirements with Guidance for Use Standard	2009	This Standard provides guidance for the use of a maturity model for the phased implementation of the ANSI/ASIS SPC.1-2009 Organizational Resilience (OR) Standard in six phases, ranging from an unplanned approach, to managing events, to going beyond the requirements of the OR Standard and creating a holistic environment for resilience management. Standard is included in the U.S. DHS's Private Sector Preparedness Program (PS-Prep), a voluntary program designed to improve private sector resilience and preparedness in an all hazards environment.	Business Continuity				
ANSI/ASIS SPC.2	Auditing Management Systems – Risk, Resilience, Security and Continuity	2014	Provides guidance for conducting resilience, security, crisis, continuity and other risk-based audits within the context of management systems and practical advice on conducting audits.	Business Continuity				

ANSI/ASIS SPC.4	Organizational Resilience Maturity Model - Phased Implementation of the Organizational Resilience Management System Standard	2012	Describes a maturity model for phased implementation of the ANSI/ASIS SPC.1-2009 as a series of steps designed to help organizations evaluate where they currently are with regard to resilience management and preparedness, set goals for where they want to go, benchmark where they are relative to those goals, and plot a business sensible path to get there.	Business Continuity				
ASIS BC GDL (2005)	Business Continuity Guideline - A Practical Approach for Emergency Preparedness, Crisis Management, and Disaster Recovery	2005		Business Continuity				

ASIS PAP.1	Security Management Standard: Physical Asset Protection	2012	<p>This Standard presents a comprehensive management approach for the protection of assets by the application of security measures for physical asset protection. It provides generic principles, requirements, and guidance as well as the framework for a management system to assist organizations in the design, implementation, monitoring, evaluation, maintenance, and replacement of physical protection systems (PPS). All the requirements and guidance in this Standard are intended to be incorporated in ANSI/ASIS SPC.1-2009 Organizational Resilience (OR) Standard, or any type of an organization's management system based on the PDCA model. The Standard is applicable to organizations of all sizes</p>	Business Continuity	Commercial Facilities	Government Facilities		
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ASIS SPC.4	Maturity Model for the Phased Implementation of the Organizational Resilience Management System	2012	The ASIS Organizational Resilience American National Standard provides organizations with a comprehensive management framework to anticipate, prevent if possible, and prepare for and respond to a disruptive incident. It provides generic auditable criteria to establish, check, maintain, and improve a management system to enhance prevention, preparedness (readiness), mitigation, response, continuity, and recovery from an emergency, crisis, or disaster. The standard addresses the core elements and criteria of the DHS Title IX preparedness program.	Business Continuity				
ASIS TASR GDL	Threat Advisory System Response Guideline	2008		Business Continuity				

ASIS/BSI BCM.01-2010	Business Continuity Management Systems: Requirements with Guidance for Use	2010	The ASIS/BSI Business Continuity Management Systems - Requirements with Guidance for Use standard (based on the BS 25999, Part 1 and Part 2) specifies requirements for a business continuity management system (BCMS) to enable an organization to identify, develop, and implement policies, objectives, capabilities, processes, and programs-taking into account legal and other requirements to which the organization subscribes to-to address disruptive events that might impact the organization and its stakeholders. This Standard specifies requirements for planning, establishing, implementing, operating, monitoring, reviewing, exercising, maintaining, and improving a documented	Business Continuity				
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ASME A112.18.3

PERFORMANCE
REQUIREMENTS FOR
BACKFLOW PROTECTION
DEVICES AND SYSTEMS IN
PLUMBING FIXTURE FITTINGS

Describes functional
performance and requires
physical characteristics of
devices and systems which
provide backflow protection
consistent with the level of
risk associated with the
plumbing fixture fitting
application.

Water and Wastewater
Systems

A112 Dedication Foreword
Committee Roster Correspondence
With the A112 Committee 1
Purpose 2 Scope 3 Reference
Standards 4 Definitions 5
Application of Backflow Prevention
Devices 6 General Requirements
for Backflow Prevention Devices
7 Evaluation of Backflow Prevention
Devices 8 Fixture Fittings With
Internal Devices Complying With
Paras. 6 and 7 9 Fixture Fittings
With Internal Devices Not
Complying With Para. 7 10 Test
Methods and Performance Criteria
11 Functional Test of Backflow
Prevention Devices 12 Functional
Test of Backflow Prevention
Systems 13 Independence of
Devices 14 Leakage of Protection
Systems With Atmospheric Vents
15 Durability Tests 16 Verification
of the Critical Level [Hose Connected
Movable Outlet Faucets With
Atmospheric Vents, Paras.
8.1.1(b), (c), and (d)] Nonmandatory
Appendix A - Rationale for Sampling

ASME A17.1	SAFETY CODE FOR ELEVATORS AND ESCALATORS - INCLUDES REQUIREMENTS FOR ELEVATORS, ESCALATORS, DUMBWAITERS, MOVING WALKS, MATERIAL LIFTS, AND DUMBWAITERS WITH AUTOMATIC TRANSFER DEVICES	21/10/2013	Describes the design, construction, operation, inspection, testing, maintenance, alteration, and repair of the following equipment and its associated parts, rooms, spaces, and hoistways, where located in or adjacent to a building or structure: (a) hoisting and lowering mechanisms, equipped with a car, that move between two or more landings; (b) power-driven stairways and walkways for carrying persons between landings; and (c) hoisting and lowering mechanisms equipped with a car that serves two or more landings and is restricted to the carrying of material by its limited size or limited access to the car.	Commercial Facilities	Government Facilities	Residential Facilities		ASME Foreword ASME Committee Roster CSA Committees ASME Preface CSA Preface Summary of Changes Part 1 - General Part 2 - Electric Elevators Part 3 - Hydraulic Elevators Part 4 - Elevators With Other Types of Driving Machines Part 5 - Special Application Elevators Part 6 - Escalators and Moving Walks Part 7 - Dumbwaiters and Material Lifts Part 8 - General Requirements Part 9 - Reference Codes, Standards, and Specifications Nonmandatory Appendices A - Control System B - Door Landing and Unlocking Zones C - Location of Top Emergency Exit D - Rated Load and Capacity Plates for Passenger Elevators E - Elevator Requirements for Persons With Physical Disabilities in Jurisdictions Enforcing NBCC F - Ascending Car Overspeed and Unintended Car Movement Protection G - Top of Car Clearance H - Private Residence Elevator Guarding I - Escalator and Moving
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ASME A17.3	SAFETY CODE FOR EXISTING ELEVATORS AND ESCALATORS - INCLUDES REQUIREMENTS FOR ELECTRIC AND HYDRAULIC ELEVATORS AND ESCALATORS	26/08/2011	Describes safety of life and limb, and to promote the public welfare. It covers existing elevators, escalators, and their hoistways.	Commercial Facilities	Government Facilities	Residential Facilities		Foreword Committee Roster Preface Summary of Changes Part I - Introduction Part II - Hoistways and Related Construction for Electric Elevators Part III - Machinery and Equipment for Electric Elevators Part IV - Hydraulic Elevators Part V - Escalators Part VI - Dumbwaiters Part VII - Hand Elevators Part VIII - Sidewalk Elevators Part IX - Moving Walks Part X - Private Residence Elevators Nonmandatory Appendices A - Distances Between Hoistway Doors and Car Doors or Gates B - Types of Roped-Hydraulic Elevators C - A17.1-1987, Rules 211.3-211.8 D - Rack and Pinion Machines (A17.1-1987, Rules 208.3-208.9d, and Rule 1200.4e) Index
ASME A17.5	ELEVATOR AND ESCALATOR ELECTRICAL EQUIPMENT	1/3/2011	Pertains to the following electrical equipment for elevators, escalators, moving walks, dumbwaiters, material lifts, and elevating devices for persons with physical disabilities (platform lifts and stairway chairlifts): (a) motor controllers; (b) motion controllers; (c) operation controllers; (d) operating devices; and (e) all other electrical equipment not listed/certified and labelled/marked according to another product safety standard or code.	Commercial Facilities	Government Facilities	Residential Facilities		Preface 1 Scope 2 Reference publications and abbreviations 3 Construction 4 Enclosure construction 5 Doors and covers 6 Polymeric enclosures 7 Openings in enclosures 8 Wire-bending space 9 Enclosures with environmental ratings 10 Protection against corrosion 11 Insulating material 12 Protective devices 13 Protection of control circuits 14 Internal wiring 15 Wiring terminals and leads 16 Electrical spacings 17 Grounding 18 Printed circuit boards 19 Tests 20 Marking Annexes A (informative) - Application examples B (informative) - CSA and ASME elevator and escalator publications

ASME A17.6	STANDARD FOR ELEVATOR SUSPENSION, COMPENSATION, AND GOVERNOR SYSTEMS	30/07/2010	Specifies the means and members of suspension, compensation, and governor systems for elevators within the scope of ASME A17.1/CSA B44. It includes the material properties, design, testing, inspection, and replacement criteria for these means.	Commercial Facilities	Government Facilities	Residential Facilities		Foreword Committee Roster Correspondence With ASME A17 Committee Preface Part 1 - Stranded Carbon Steel Wire Ropes for Elevators Mandatory Appendix I - Tables Part 2 - Aramid Fiber Ropes for Elevators Part 3 - Noncircular Elastomeric Coated Steel Suspension Members for Elevators Nonmandatory Appendix A - Inspection and Replacement of Steel Wire Ropes
ASME A17.7	PERFORMANCE-BASED SAFETY CODE FOR ELEVATORS AND ESCALATORS		Describes the design, construction, operation, inspection, testing, maintenance, alteration, and repair of the following equipment and its associated parts, rooms, spaces, and hoistways, where located in or adjacent to a building or structure.	Commercial Facilities	Government Facilities	Residential Facilities		Foreword ASME Preface Form and arrangement 1 GENERAL 1.1 SCOPE 1.2 PURPOSE 1.3 DEFINITIONS 2 SAFETY REQUIREMENTS 2.1 PROCESSES FOR ESTABLISHING SAFETY 2.2 OPTIONS FOR ESTABLISHING SAFETY 2.3 SAFETY ASSESSMENT SUBJECT 2.4 ASSURING SAFETY BY IMPLEMENTING GESRs 2.5 SORTING OF APPLICABLE GESRs FOR APPROACH 1 2.6 IMPLEMENTATION OF GESRs 2.7 RISK ASSESSMENT PROCESS 2.8 PROTECTIVE MEASURES AND SAFETY PRINCIPLES 2.9 APPLICATION OF SPs 2.10 CODE COMPLIANCE DOCUMENTATION 2.11 CODE DATA PLATE 2.12 ADDITIONAL REQUIREMENTS 3 GLOBAL ESSENTIAL SAFETY REQUIREMENTS (GESRs) FOR ELEVATORS 3.1 COMMON GESRs RELATED TO PERSONS AT DIFFERENT LOCATIONS 3.2 GESRs RELATED TO PERSONS ADJACENT TO THE ELEVATOR - FALLING INTO

ASME B&PV COMPONENTS DESIGN & ANALYSIS	DESIGN AND ANALYSIS OF ASME BOILER AND PRESSURE VESSEL COMPONENTS IN THE CREEP RANGE		Describes the general principles of design at elevated temperatures which is given with extensive references cited for further in-depth understanding of the subject.	Energy				
ASME B20.1	SAFETY STANDARD FOR CONVEYORS AND RELATED EQUIPMENT	15/05/2012	Pertains to the design, construction, installation, maintenance, inspection, and operation of conveyors and conveying systems in relation to hazards. The conveyors may be of the bulk material, package, or unit-handling types, where the installation is designed for permanent, temporary, or portable operation.					Foreword Committee Roster Summary of Changes Introduction 1 Scope 2 Reference to Other Codes 3 Intent 4 Definitions 5 General Safety Standards 6 Specific Safety Standards

ASME B31.12	HYDROGEN PIPING AND PIPELINES	15/03/2012	Pertains to piping in gaseous and liquid hydrogen service and to pipelines in gaseous hydrogen service.	Energy	Transportation Systems			<p>Foreword Committee Roster ASME B31.12-2011 Summary of Changes</p> <p>PART GR - GENERAL REQUIREMENTS</p> <p>Chapter GR-1 - Scope and Definitions</p> <p>Chapter GR-2 - Materials</p> <p>Chapter GR-3 - Welding, Brazing, Heat Treating, Forming, and Testing</p> <p>Chapter GR-4 - Inspection, Examination, and Testing</p> <p>Chapter GR-5 - Operation and Maintenance</p> <p>Chapter GR-6 - Quality System Program for Hydrogen Piping and Pipeline Systems</p> <p>PART IP - INDUSTRIAL PIPING</p> <p>Chapter IP-1 - Scope and Responsibilities</p> <p>Chapter IP-2 - Design Conditions and Criteria</p> <p>Chapter IP-3 - Pressure Design of Piping Components</p> <p>Chapter IP-4 - Service Requirements for Piping Components</p> <p>Chapter IP-5 - Service Requirements for Piping Joints</p> <p>Chapter IP-6 - Flexibility and Support</p> <p>Chapter IP-7 - Specific Piping Systems</p> <p>Chapter IP-8 - Dimensions and Ratings of Components</p> <p>Chapter IP-9 - Fabrication, Erection, and Assembly</p> <p>Chapter IP-10 -</p>
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ASME B31.4	PIPELINE TRANSPORTATION SYSTEMS FOR LIQUIDS AND SLURRIES	12/11/2012	Gives requirements for the design, materials, construction, assembly, inspection, testing, operation, and maintenance of piping transporting liquids between production facilities, tank farms, natural gas processing plants, refineries, pump stations, ammonia plants, terminals (marine, rail, and truck), and other delivery and receiving points.	Energy	Transportation Systems			<p>Foreword Committee Roster Introduction Summary of Changes Chapter I - Scope and Definitions Chapter II - Design Chapter III - Materials Chapter IV - Dimensional Requirements Chapter V - Construction, Welding, and Assembly Chapter VI - Inspection and Testing Chapter VII - Operation and Maintenance Procedures Chapter VIII - Corrosion Control Chapter IX - Offshore Liquid Pipeline Systems Chapter X - Carbon Dioxide Pipeline Systems Chapter XI - Slurry Pipeline Systems Mandatory Appendix I - Referenced Standards Nonmandatory Appendices A - Submittal of Technical Inquiries to the B31 Pressure Piping Committee B - Publications That Do Not Appear</p>
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ASME B31.8	GAS TRANSMISSION AND DISTRIBUTION PIPING SYSTEMS	4/1/2013	Describes the design, fabrication, installation, inspection, and testing of pipeline facilities used for the transportation of gas. It also covers safety aspects of the operation and maintenance of those facilities.	Energy	Transportation Systems			<p>Foreword Committee Roster Introduction Summary of Changes General Provisions and Definitions Chapter I - Materials and Equipment Chapter II - Welding Chapter III - Piping System Components and Fabrication Details Chapter IV - Design, Installation, and Testing Chapter V - Operating and Maintenance Procedures Chapter VI - Corrosion Control Chapter VII - Intentionally Left Blank Chapter VIII - Offshore Gas Transmission Chapter IX - Sour Gas Service Appendices Mandatory Appendix A - References Mandatory Appendix B - Numbers and Subjects of Standards and Specifications That Appear in Mandatory Appendix A Nonmandatory Appendix C - Publications That Do Not Appear in the Code or Mandatory Appendix A Mandatory Appendix D - Specified Minimum Yield Strength for Steel Pipe Commonly Used in Piping Systems</p>
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ASME B31.8S	MANAGING SYSTEM INTEGRITY OF GAS PIPELINES	11/1/2013	Pertains to onshore pipeline systems constructed with ferrous materials and that transport gas. The principles and processes embodied in integrity management are applicable to all pipeline systems.	Energy	Transportation Systems			Foreword Committee Roster Summary of Changes 1 Introduction 2 Integrity Management Program Overview 3 Consequences 4 Gathering, Reviewing, and Integrating Data 5 Risk Assessment 6 Integrity Assessment 7 Responses to Integrity Assessments and Mitigation (Repair and Prevention) 8 Integrity Management Plan 9 Performance Plan 10 Communications Plan 11 Management of Change Plan 12 Quality Control Plan 13 Terms, Definitions, and Acronyms 14 References and Standards Nonmandatory Appendices A - Threat Process Charts and Prescriptive Integrity Management Plans B - Direct Assessment Process C - Preparation of Technical Inquiries
ASME B31E	STANDARD FOR THE SEISMIC DESIGN AND RETROFIT OF ABOVE-GROUND PIPING SYSTEMS	6/7/2010	Describes a method for the seismic design of above-ground, metallic piping systems in the scope of the ASME B31 Code for Pressure Piping (B31.1, B31.3, B31.4, B31.5, B31.8, B31.9, B31.11).	Energy	Transportation Systems			Foreword Committee Roster Correspondence With the B31 Committee Introduction 1 Purpose 2 Materials 3 Design 4 Interactions 5 Documentation 6 Maintenance 7 References
ASME B31G	MANUAL FOR DETERMINING THE REMAINING STRENGTH OF CORRODED PIPELINES: SUPPLEMENT TO ASME B31 CODE FOR PRESSURE PIPING	24/10/2012	Gives guidance in the evaluation of metal loss in pressurized pipelines and piping systems.	Energy	Transportation Systems			Foreword Committee Roster Correspondence With the B31 Committee 1 Introduction 2 Evaluation Methods 3 Tables of Allowable Length of Corrosion

ASME B31J	STANDARD TEST METHOD FOR DETERMINING STRESS INTENSIFICATION FACTORS (I-FACTORS) FOR METALLIC PIPING COMPONENTS		Describes an engineering procedure deemed appropriate for the determination of the fatigue capacity of a piping component or joint in most services, relative to a standard butt-welded joint.	Energy				Foreword Committee Roster Correspondence With the B31 Committee Introduction 1 General 2 Definitions 3 Test Procedure 4 Stress Intensification Factor 5 Variations in Materials and Geometry 6 Test Report Nonmandatory Appendix A - Commentary on B31J
ASME FFS 1	FITNESS-FOR-SERVICE	1/2/2009	Covers both the present integrity of the component given a current state of damage and the projected remaining life.	Commercial Facilities	Government Facilities	Residential Facilities		Foreword Special Notes PART 1 - INTRODUCTION PART 2 - FITNESS-FOR-SERVICE ENGINEERING ASSESSMENT PROCEDURE PART 3 - ASSESSMENT OF EXISTING EQUIPMENT FOR BRITTLE FRACTURE PART 4 - ASSESSMENT OF GENERAL METAL LOSS PART 5 - ASSESSMENT OF LOCAL METAL LOSS PART 6 - ASSESSMENT OF PITTING CORROSION PART 7 - ASSESSMENT OF HYDROGEN BLISTERS AND HYDROGEN DAMAGE ASSOCIATED WITH HIC AND SOHIC PART 8 - ASSESSMENT OF WELD MISALIGNMENT AND SHELL DISTORTIONS PART 9 - ASSESSMENT OF CRACK-LIKE FLAWS PART 10 - ASSESSMENT OF COMPONENTS OPERATING IN THE CREEP RANGE PART 11 - ASSESSMENT OF FIRE DAMAGE PART 12 - ASSESSMENT OF DENTS, GOUGES, AND DENT-GOUGE COMBINATIONS PART 13 - ASSESSMENT OF LAMINATIONS ANNEX A - THICKNESS, MAWP AND

ASME NQA 1	QUALITY ASSURANCE REQUIREMENTS FOR NUCLEAR FACILITY APPLICATIONS	15/03/2013	Describes requirements and guidelines for the establishment and execution of quality assurance programs during siting, design, construction, operation and decommissioning of nuclear facilities.	Nuclear Reactors, Materials, and Waste	Government Facilities	Commercial Facilities		Foreword Preparation of Technical Inquiries to the Nuclear Quality Assurance Committee Committee Roster Summary of Changes Part I - Requirements for Quality Assurance Programs for Nuclear Facilities (From Former NQA-1) Part II - Quality Assurance Requirements for Nuclear Facility Applications Part III - Guidance for Implementing Part I and II Requirements Part IV - Guidance on the Application and Use of NQA-1
ASME OM-S/G	Standards and Guides for Operation and Maintenance of Nuclear Power Plants	17/10/2007	Describes the requirements for preservice and inservice testing and examination of certain components to assess their operational readiness in light-water reactor power plants.	Nuclear Reactors, Materials, and Waste	Government Facilities	Commercial Facilities	Energy	Foreword Preparation of Technical Inquiries to the Committee on Operation and Maintenance of Nuclear Power Plants Committee Roster Preface Summary of Changes STANDARDS Part 2 - Performance Testing of Closed Cooling Water Systems in LWR Power Plants Part 3 - Requirements for Preoperational and Initial Start-up Vibration Testing of Nuclear Power Plant Piping Systems Part 12 - Loose Part Monitoring in Light-Water Reactor Power Plants Part 16 - Performance Testing and Inspection of Diesel Drive Assemblies in LWR Power Plants Part 21 - Inservice Performance Testing of Heat Exchangers in Light-Water Reactor Power Plants Part 24 - Reactor Coolant and Recirculation Pump Condition

ASME PCC 3	INSPECTION PLANNING USING RISK-BASED METHODS		Describes the concepts and principles used to develop and implement a risk-based inspection (RBI) program.					Foreword Committee Roster 1 Scope, Introduction, and Purpose 2 Basic Concepts 3 Introduction to Risk-Based Inspection 4 Planning the Risk Analysis 5 Data and Information Collection 6 Damage Mechanisms and Failure Modes 7 Determining Probability of Failure 8 Determining Consequence of Failure 9 Risk Determination, Analysis, and Management 10 Risk Management With Inspection Activities 11 Other Risk Mitigation Activities 12 Reanalysis 13 Roles, Responsibilities, Training, and Qualifications 14 Documentation and Record Keeping 15 Definitions and Acronyms 16 References Nonmandatory Appendices A - Damage Mechanism Definitions B - Damage Mechanism and Defects Screening Tables C - Table of Inspection/Monitoring Methods D - Quantitative Methods Including Expert Opinion Elicitation E - Examples of Risk-Based Inspection Program Audit Questions
ASME PDS 1.1	DIMENSIONING, TOLERANCING, SURFACE TEXTURE, AND METROLOGY STANDARDS - RULES FOR DRAWINGS WITH INCOMPLETE REFERENCE TO APPLICABLE DRAWING STANDARD	31/12/2013	Describes the applicable dimensioning and tolerancing standards, surface texture standards, and associated measurement standards when no reference is made to a company, regional, national, or international standard on dimensioning and tolerancing on a drawing or model.					Foreword Committee Roster Correspondence With the H213 Committee 1 Scope 2 Product Definition Specifications 3 Y14.5 Reference to Standard 4 Drawings Without Reference to a Standard 5 ANSI/ASME B46 and B89 Standards

ASME PTB 2	GUIDE TO LIFE CYCLE MANAGEMENT OF PRESSURE EQUIPMENT INTEGRITY	30/06/2009	Specifies a summary of some of the more commonly used codes, standards, recommended practices (RPs), specifications and guidelines produced by organizations based in the United States that assist manufacturers, owners, users and their designated agents, regulators and other stakeholders in maintaining the integrity of fixed pressure equipment in process plants and in general industrial use.	Commercial Facilities	Government Facilities	Residential Facilities	Energy	List of Appendices List of Tables Foreword 1. Scope 2. Abbreviations 3. Definitions 4. Organization of this Guide 5. Overview 6. Power (Steam) Boilers 7. Heat Recovery Steam Generators (HRSGs) 8. Heating Boilers 9. Unfired Steam Boilers 10. Typical Pressure Vessels 11. Large, Heavy Wall and High Temperature Pressure Vessels 12. High Pressure Vessels 13. Heat Exchangers 14. Storage Tanks 15. Piping Systems 16. Acquisition (Purchase) of Components, Including Fittings 17. Post-construction Documents for Components, Including Fittings 18. Overpressure Protection Systems 19. Specific Tasks Acknowledgments
ASME PTC PM	PERFORMANCE MONITORING GUIDELINES FOR POWER PLANTS	30/04/2010	Gives information to implement and utilize a performance monitoring and optimization program effectively.	Energy	Commercial Facilities	Government Facilities		Foreword Committee Roster Correspondence With the PTC PM Committee Introduction Section 1 - Fundamental Concepts Section 2 - Program Implementation Section 3 - Case Studies/Diagnostic Examples Nonmandatory Appendix A - Thermodynamics Fundamentals

ASME PVHO 1	SAFETY STANDARD FOR PRESSURE VESSELS FOR HUMAN OCCUPANCY	31/05/2012	Pertains to all pressure vessels that enclose a human within its pressure boundary while under internal or external pressure exceeding a differential pressure of 2 psi (15 kPa).	Energy	Commercial Facilities	Government Facilities	Residential Facilities	Foreword Committee Roster Correspondence With the PVHO Committee Summary of Changes Section 1 - General Requirements Section 2 - Viewports Section 3 - Quality Assurance for PVHO Manufacturers Section 4 - Piping Systems Section 5 - Medical Hyperbaric Systems Section 6 - Diving Systems Section 7 - Submersibles Mandatory Appendices I Reference Codes, Standards, and Specifications II Definitions Nonmandatory Appendices A Design of Supports and Lifting Attachments B Recommendations for the Design of Through-Pressure Boundary Penetrations C Recommended Practices for Color Coding and Labeling D Guidelines for the Submission of a PVHO Case for the Use of Nonstandard Designs, Materials, and Construction E Useful References
ASME PVHO 2	SAFETY STANDARD FOR PRESSURE VESSELS FOR HUMAN OCCUPANCY: IN-SERVICE GUIDELINES	7/6/2013	Gives technical criteria for the user to establish the serviceability of a PVHO acrylic window under its specific environmental service conditions.	Energy	Commercial Facilities	Government Facilities	Residential Facilities	Foreword Committee Roster Correspondence With the PVHO Committee Summary of Changes Section 1 - General Section 2 - Viewports Mandatory Appendices I Definitions II - Reference Standards and Specifications III - Quality Assurance Program for Repair of Severely Damaged Windows IV - Additional Window Repair Requirements and Forms V - Partial List of Harmful Substances and Acceptable Products VI - Mechanical Testing Computations and Forms

ASME RAM 1	RELIABILITY, AVAILABILITY, AND MAINTAINABILITY OF EQUIPMENT AND SYSTEMS IN POWER PLANTS	18/10/2013	Gives the requirements to establish a RAM program for any power-generation facility.	Energy	Commercial Facilities	Government Facilities		Foreword Committee Roster Correspondence With the RAM Committee 1 Introduction 2 Scope 3 Purpose 4 Definitions 5 RAM Process 6 RAM Description Mandatory Appendix I - Definitions Nonmandatory Appendix A - References
ASME RA-S	LEVEL 1/LARGE EARLY RELEASE FREQUENCY PROBABILISTIC RISK ASSESSMENT FOR NUCLEAR POWER PLANT APPLICATIONS	30/09/2013	Specifies requirements for probabilistic risk assessments (PRAs) used to support risk-informed decisions for commercial nuclear power plants, and describes a method for applying these requirements for specific applications.	Nuclear Reactors, Materials, and Waste	Commercial Facilities	Government Facilities	Energy	Foreword Preparation of Technical Inquires to the Committee on Nuclear Risk Management Committee Roster Preface PART 1 - GENERAL REQUIREMENTS FOR A LEVEL 1 PRA, INCLUDING LARGE EARLY RELEASE FREQUENCY PART 2 - REQUIREMENTS FOR INTERNAL-EVENTS AT-POWER PRA PART 3 - REQUIREMENTS FOR INTERNAL FLOOD AT-POWER PRA PART 4 - REQUIREMENTS FOR INTERNAL FIRES AT-POWER PRA PART 5 - REQUIREMENTS FOR SEISMIC EVENTS AT-POWER PRA PART 6 - REQUIREMENTS FOR SCREENING AND CONSERVATIVE ANALYSIS OF OTHER HAZARDS AT-POWER PART 7 - REQUIREMENTS FOR HIGH-WIND EVENTS\AT-POWER PRA PART 8 - REQUIREMENTS FOR EXTERNAL FLOOD EVENTS AT-POWER PRA PART 9 - REQUIREMENTS FOR OTHER HAZARDS AT-POWER PRA PART 10 - SEISMIC MARGIN ASSESSMENT REQUIREMENTS

ASME RA-S	LEVEL 1/LARGE EARLY RELEASE FREQUENCY PROBABILISTIC RISK ASSESSMENT FOR NUCLEAR POWER PLANT APPLICATIONS	30/9/2013	Specifies requirements for probabilistic risk assessments (PRAs) used to support risk-informed decisions for commercial nuclear power plants, and describes a method for applying these requirements for specific applications.					Foreword Preparation of Technical Inquires to the Committee on Nuclear Risk Management Committee Roster Preface PART 1 - GENERAL REQUIREMENTS FOR A LEVEL 1 PRA, INCLUDING LARGE EARLY RELEASE FREQUENCY PART 2 - REQUIREMENTS FOR INTERNAL-EVENTS AT-POWER PRA PART 3 - REQUIREMENTS FOR INTERNAL FLOOD AT-POWER PRA PART 4 - REQUIREMENTS FOR INTERNAL FIRES AT-POWER PRA PART 5 - REQUIREMENTS FOR SEISMIC EVENTS AT-POWER PRA PART 6 - REQUIREMENTS FOR SCREENING AND CONSERVATIVE ANALYSIS OF OTHER HAZARDS AT-POWER PART 7 - REQUIREMENTS FOR HIGH-
ASME RT 1	SAFETY STANDARD FOR STRUCTURAL REQUIREMENTS FOR LIGHT RAIL VEHICLES	18/09/2009	Pertains to car bodies for newly constructed light-rail vehicles for transit passenger service in North America. It defines requirements for the incorporation of passive safety design concepts related to the performance of the car body of light-rail vehicles in collisions, so as to enhance passenger safety and limit and control damage.	Transportation Systems				Foreword Committee Roster Correspondence With the RT Committee Introduction 1 Scope 2 Definitions 3 Interoperability 4 Structural Requirements 5 Design Load Requirements 6 Coupler System 7 Material 8 Crash Energy Management (CEM) 9 Analysis 10 Tests 11 References

ASME RT 2	SAFETY STANDARD FOR STRUCTURAL REQUIREMENTS FOR HEAVY RAIL TRANSIT VEHICLES		Pertains to carbodies of newly constructed heavy rail transit vehicles for transit passenger service.	Transportation Systems				Foreword Committee Roster Correspondence With the RT Committee Introduction Summary of Changes 1 Scope 2 Definitions 3 Interoperability 4 Structural Requirements 5 Design Load Requirements 6 Coupler System 7 Materials 8 Crash Energy Management (CEM) 9 Analysis 10 Tests
ASME STP-PT-011	INTEGRITY MANAGEMENT OF STRESS CORROSION CRACKING IN GAS PIPELINE HIGH CONSEQUENCE AREAS	31/10/2008	Provides a compilation of results obtained through a series of white papers developed as part of a gas transmission company JIP addressing specific issues related to SCC in gas pipeline HCAs.	Energy	Transportation Systems			Foreword Abstract 1 SUMMARY 2 BACKGROUND AND OBJECTIVES 3 APPROACH 4 TASK 1 - CLARIFICATION OF ISSUES 5 TASK 2 - RESPONSES TO QUESTIONS 6 TASK 3 - INDUSTRY AND PEER REVIEWS 7 TASK 4 - INTERACTIONS WITH DOT PHMSA 8 TASK 5 - INTERACTIONS WITH ASME 9 CONCLUDING REMARKS Appendix A - Field Experience of SCC in Gas Transmission Pipelines Appendix B - Definition of SCC Susceptible HCA's and Segments Appendix C - Prioritizing SCC Susceptible HCA'S and Segments Appendix D - ReAssessment Intervals Appendix E - Hydrostatic Test Procedure Appendix F - Dig Locations for SCC DA Appendix G - Number of Digs for SCC DA Appendix H - Crack Severity Appendix I - Issues Related to Predicting Failure Pressure Appendix J - Issues Related to Estimating Remaining Life Appendix K - Condition Monitoring Acknowledgments Abbreviations

ASME STP-PT-048	CRITERIA FOR RELIABILITY-BASED AND ASSESSMENT FOR ASME B31.8 CODE	30/06/2012	Gives guidance to potential users of the proposed ASME Appendix B31.8R on Reliability Based Design and Assessment (RBDA) by documenting the relevant background information required to fully understand the requirements of the Appendix and to apply them correctly in decision making.	Energy				FOREWORD 1. PURPOSE 2. SCOPE 3. DEFINITIONS 4. OVERVIEW OF RBDA METHODOLOGY 5. LIMIT STATES 6. RELIABILITY TARGETS 7. DEVELOPING LIMIT STATE FUNCTION 8. PROBABILISTIC CHARACTERIZATION OF INPUT VARIABLES 9. RELIABILITY ESTIMATION 10. IMPLICATIONS OF USING THE APPENDIX 11. EXAMPLE APPLICATIONS 12. REFERENCES Acknowledgements
ASME STP-PT-052	ALIGN MECHANICAL AND CIVIL-STRUCTURAL EARTHQUAKE DESIGN AND QUALIFICATION RULES FOR ASME B31 PIPING SYSTEMS AND PIPELINES	15/06/2012	Gives recommendations for an improved interface between current seismic design, analysis and qualification codes and standards, as well as recommendations for improvements of these codes and standards, to achieve a consistent, complete, and non-redundant set of requirements and guidance for the design engineers.	Energy	Transportation Systems			Foreword Abstract 1 Recommendations for Seismic Design and Qualification 2 Earthquake and Seismic Test Performance of Piping Systems Experimental Methods 3 Seismic Testing of Piping Systems Annex A - Stress Analysis Outline Acknowledgements

ASME TR A17.1-8.4	GUIDE FOR ELEVATOR SEISMIC DESIGN	31/03/2014	Gives detailed information on ASME A17.1 harmonization efforts with all building codes and summarizes the harmonization impact on elevator design via force comparisons based on component, component mounting location, and building geographical location, and provides an International Building Code (IBC) quick reference for seismic requirements and equivalent zone force levels.	Commercial Facilities	Government Facilities	Residential Facilities		Foreword Committee Roster Part 1 - Modification of ASME A17.1-2010, Section 8.4, Elevator Safety Requirements for Seismic Risk Zone 2 or Greater Part 2 - Derivations Part 3 - Sample Calculations Mandatory Appendix I - Sample Calculation Figures
ASME-ITI/AWWA J100	RISK AND RESILIENCE MANAGEMENT OF WATER AND WASTEWATER SYSTEMS	1/7/2010	Describes the requirements for all-hazards risk and resilience analysis and management for the water sector and prescribes methods that can be used for addressing these requirements.	Water and Wastewater Systems	Transportation Systems			Foreword 1 Introduction 2 RAMCAP Overview 3 Organization of This Document 4 Comments Committee Roster Risk and Resilience Management of Water and Wastewater Systems 1 Scope 2 Definitions 3 Bibliography 4 Requirements 5 Process Control 6 Verification Nonmandatory Appendix A: Guidance on the Use of this Standard Nonmandatory Appendix B: Optional Use of RAMCAP Scales for Recording Consequence and Vulnerability Estimates Appendix C: Glossary Nonmandatory Appendix D: Expanded Bibliography Mandatory Appendix E: RAMCAP Reference Threats Non-mandatory Appendix F: Proxy Indicator of Terrorism Threat Likelihood for the Water Sector Nonmandatory Appendix G: Integrated Analysis of Natural Hazards Nonmandatory Appendix H: Water Sector Utility Resilience Analysis Approach

ASCE 12 05	GUIDELINES FOR THE DESIGN OF URBAN SUBSURFACE DRAINAGE		Supersedes ASCE 12 92. Combined with ASCE 13 05 and ASCE 14 05. (11/2005) New 2013 Edition is also available; See: ASCE/EWRI 12-13, 13-13, 14-13. (11/2013)	Water and Wastewater Systems				Foreword Acknowledgements 1.0 SCOPE 2.0 DEFINITIONS 3.0 SITE ANALYSIS 4.0 SYSTEM CONFIGURATION 5.0 DRAIN ENVELOPES 6.0 HYDRAULICS AND HYDROLOGY 7.0 STRUCTURAL CONSIDERATIONS 8.0 MATERIALS 9.0 CODES AND PERMITS 10.0 REFERENCES INDEX
ASCE 10 97	DESIGN OF LATTICED STEEL TRANSMISSION STRUCTURES	2000	Defines requirements for the design, fabrication, and testing of members and connections for electrical transmission structures. Pertains to hot-rolled and cold-formed steel shapes.	Energy	Communications			STANDARDS FOREWORD ACKNOWLEDGMENTS 1.0 General 2.0 Loading, Geometry, and Analysis 3.0 Design of Members 4.0 Design of Connections 5.0 Detailing and Fabrication 6.0 Testing 7.0 Structural Members and Connections Used in Foundations 8.0 Quality Assurance/Quality Control Commentary References Appendix A - Notation Appendix B - Examples Index
ASCE 11 99	GUIDELINE FOR STRUCTURAL CONDITION ASSESSMENT OF EXISTING BUILDINGS	2000	Gives guidelines and methodology for assessing the structural condition of existing buildings constructed of combinations of materials including concrete, metals, masonry, and wood. It also defines the assessment procedure including investigation, testing methods, and format for the report of the condition assessment.	Commercial Facilities	Government Facilities	Residential Facilities		STANDARDS DEDICATION FOREWORD ACKNOWLEDGMENTS 1.0 General 2.0 Assessment Procedure 3.0 Structural Materials Assessment 4.0 Evaluation Procedures and Evaluation of Structural Materials and Systems 5.0 Report on Structural Condition Assessment Appendix A - Report of Structural Condition Assessment Appendix B - Organization References Index

ASCE 13 05	GUIDELINES FOR THE INSTALLATION OF URBAN SUBSURFACE DRAINAGE	2006	Defines installation and construction guidance for urban subsurface drainage systems and discusses subjects such as airports, roads, and other commercial transportation systems, and industrial, residential, and recreational areas.	Water and Wastewater Systems				Foreword Acknowledgements 1.0 SCOPE 2.0 DEFINITIONS 3.0 CONTRACT DOCUMENTS 4.0 SITE INVESTIGATION 5.0 INSTALLATION 6.0 INSPECTION Appendix A - Recommended Use of Trench Boxes 1.0 INTRODUCTION 2.0 GENERAL CONSIDERATIONS 3.0 SUBTRENCH CONSTRUCTION 4.0 REGULAR TRENCH CONSTRUCTION 5.0 SUMMARY 7.0 REFERENCES INDEX
ASCE 14 05	GUIDELINES FOR THE OPERATION AND MAINTENANCE OF URBAN SUBSURFACE DRAINAGE	2006	Gives guidelines for operation and maintenance of urban subsurface drainage, topics include: design criteria, maintenance procedures, safety, water quality, inspection, and rehabilitation.	Water and Wastewater Systems				Foreword Acknowledgements 1.0 SCOPE 2.0 DEFINITIONS 3.0 OPERATION AND MAINTENANCE PLAN 4.0 WATER QUALITY 5.0 PERIODIC INSPECTION 6.0 MAINTENANCE 7.0 REFERENCES INDEX
ASCE 15 98	STANDARD PRACTICE FOR DIRECT DESIGN OF BURIED PRECAST CONCRETE PIPE USING STANDARD INSTALLATIONS (SIDD)	2000	Focuses on the direct design of buried precast concrete pipe using Standard Installations, and reviews the design and construction of the soil/pipe interaction system that is used for the conveyance of sewage, industrial wastes, storm water, and drainage.	Water and Wastewater Systems	Transportation Systems			PART I. GENERAL PART II. DIRECT DESIGN METHOD USING STANDARD INSTALLATIONS PART III. CONSTRUCTION OF SOIL/PRECAST CONCRETE PIPE SYSTEMS APPENDIX A: MANUFACTURING SPECIFICATION APPENDIX B: SI UNITS FOR NOTATION AND EQUATIONS COMMENTARY INDEX

ASCE 16 95	STANDARD FOR LOAD AND RESISTANCE FACTOR DESIGN (LRFD) FOR ENGINEERED WOOD CONSTRUCTION	1996	Gives design criteria for structures constructed of structurally graded lumber, structural glued laminated timber, panel products, poles, piles, and other structural wood components, and their connections.	Commercial Facilities	Government Facilities	Residential Facilities		Preface Acknowledgments Notation 1 General Provisions 2 Design Requirements 3 Tension Members 4 Compression Members And Bearing 5 Flexural Members, Bending, And Shear 6 Members With Combined Bending And Axial Loads 7 Mechanical Connections 8 Structural-Use Panels 9 Shear Walls And Diaphragms 10 Serviceability Considerations Appendix A1 - Resistance Of Spaced Columns Appendix A2 - Glued Laminated Timber (Glulam) Appendix A3 - Ponding Appendix A4 - Qualification Of Fasteners And Connectors Appendix A5 - Resistance Of Shear Plates Or Split Rings In End Grain Appendix A6 - Design Of Panel-Based Assemblies Glossary Commentary Index
ASCE 20 96	STANDARD GUIDELINES FOR THE DESIGN AND INSTALLATION OF PILE FOUNDATIONS	1997	Defines guidelines for the design and construction of pile foundations.	Commercial Facilities	Government Facilities	Residential Facilities		FOREWORD STANDARDS ACKNOWLEDGMENTS 1 GENERAL 2 ADMINISTRATIVE REQUIREMENTS 3 PILE SHAFT STRENGTH REQUIREMENTS 4 SOIL-PILE INTERFACE STRENGTH REQUIREMENTS AND CAPACITY 5 DESIGN LOADS 6 DESIGN STRESSES 7 CONSTRUCTION AND LAYOUT GUIDELINES FOR PILE DESIGN 8 INSTALLATION GUIDELINES FOR PILE CONSTRUCTION 9 APPLICABLE STANDARDS APPENDIX A - PARTIAL FACTORS OF SAFETY INDEX

ASCE 24 05	FLOOD RESISTANT DESIGN AND CONSTRUCTION	2006	Gives minimum requirements for flood-resistant design and construction of structures located in flood hazard areas.	Commercial Facilities	Government Facilities	Residential Facilities	Water and Wastewater Systems	Standards Foreword Acknowledgements 1.0 GENERAL 2.0 BASIC REQUIREMENTS FOR FLOOD HAZARD AREAS THAT ARE NOT IDENTIFIED AS COASTAL HIGH HAZARD AREAS AND COASTAL A ZONES 3.0 HIGH RISK FLOOD HAZARD AREAS 4.0 COASTAL HIGH HAZARD AREAS AND COASTAL A ZONES 5.0 MATERIALS 6.0 DRY AND WET FLOODPROOFING 7.0 UTILITIES 8.0 BUILDING ACCESS 9.0 MISCELLANEOUS CONSTRUCTION 10.0 REFERENCES Commentary INDEX
ASCE 25 06	EARTHQUAKE ACTUATED AUTOMATIC GAS SHUTOFF DEVICES	2008	Provides current minimum functionality requirements for earthquake-actuated automatic gas shut-off devices and systems. Applies only to devices carrying gaseous fuels, such as natural gas and propane.	Energy				Foreword History of the Development of the Standard Acknowledgments 1.0 GENERAL 2.0 CONSTRUCTION 3.0 PERFORMANCE 4.0 DEFINITIONS 5.0 REFERENCES COMMENTARY INDEX

ASCE 29 05	STANDARD CALCULATION METHODS FOR STRUCTURAL FIRE PROTECTION	2007	Provides the most current and proven methods for calculating the fire resistance of selected structural members and barrier assemblies using structural steel, plain concrete, reinforced concrete, timber and wood, concrete masonry, and clay masonry.	Commercial Facilities	Government Facilities	Residential Facilities		Foreword Acknowledgments 1.0 STANDARD CALCULATION METHODS FOR STRUCTURAL FIRE PROTECTION 2.0 STANDARD METHODS FOR DETERMINING THE FIRE RESISTANCE OF PLAIN AND REINFORCED CONCRETE CONSTRUCTION 3.0 STANDARD METHODS FOR DETERMINING THE FIRE RESISTANCE OF TIMBER AND WOOD STRUCTURAL ELEMENTS 4.0 STANDARD CALCULATION METHODS FOR DETERMINING THE FIRE RESISTANCE OF MASONRY 5.0 STANDARD METHODS FOR DETERMINING THE FIRE RESISTANCE OF STRUCTURAL STEEL CONSTRUCTION COMMENTARY APPENDIX A INDEX
ASCE 30 00	GUIDELINE FOR CONDITION ASSESSMENT OF THE BUILDING ENVELOPE	2000	Provides a guideline and methodology for assessing the condition and performance of existing building envelope systems and components, and identifying problematic and dysfunctional elements.	Commercial Facilities	Government Facilities	Residential Facilities		STANDARDS FOREWORD ACKNOWLEDGMENTS 1.0 General 2.0 Building Envelope Systems, Component Features and Materials 3.0 Condition Assessment Procedure 4.0 Evaluation 5.0 Report of the Condition Assessment Appendices Appendix A - Report of Condition Assessment Appendix B - Building Exteriors Performance References Bibliography Index

ASCE 31 03	SEISMIC EVALUATION OF EXISTING BUILDINGS	2003	Provides a three-tiered process for seismic evaluation of existing buildings in any level of seismicity. Aims to serve as a nationally applicable tool for design professionals, code officials, and building owners looking to seismically evaluate existing buildings.	Commercial Facilities	Government Facilities	Residential Facilities		1.0 General Provisions 2.0 Evaluation Requirements 3.0 Screening Phase (Tier 1) 4.0 Evaluation Phase (Tier 2) Chapter 5: Detailed Evaluation Phase (Tier 3) Appendix A - Examples Appendix B - Summary Data Sheet INDEX
ASCE 32 01	DESIGN AND CONSTRUCTION OF FROST-PROTECTED SHALLOW FOUNDATIONS	2001	Deals with the design and construction of frost-protected shallow foundations in areas subject to seasonal ground freezing. Foundation insulation requirements to protect heated and unheated buildings from frost heave are presented in easy-to-follow steps with reference to design tables, climate maps, and other necessary data to furnish a complete frost-protection design.	Commercial Facilities	Government Facilities	Residential Facilities		1. Scope and Limitations 2. References 3. Symbols, Units, and Definitions 4. Design Principles 5. Simplified FPSF Design Method for Heated Buildings with Slab-On-Ground Foundations 6. FPSF Design Method for Heated Buildings 7. FPSF Design Method for Unheated Buildings 8. Special Design Conditions for FPSF Appendix A: Design Data Commentary Index
ASCE 37 02	DESIGN LOADS ON STRUCTURES DURING CONSTRUCTION	2002	Defines minimum design load requirements during construction for buildings and other structures. It also addresses partially completed structures, as well as temporary structures used during construction.	Commercial Facilities	Government Facilities	Residential Facilities		1.0 General 2.0 Loads and Load Combinations 3.0 Dead and Live Loads 4.0 Construction Loads 5.0 Lateral Earth Pressure 6.0 Environmental Loads Index

ASCE 38 02	STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA	2002	Directs issues such as: (a) how utility information can be obtained; (b) what technologies are available to obtain that information; and (c) how that information can be conveyed to the information users.	Commercial Facilities	Government Facilities	Residential Facilities		1.0 Introduction 2.0 Scope 3.0 Definitions 4.0 Engineer and Owner Collection and Depiction Tasks 5.0 Utility Quality Level Attributes 6.0 Deliverables Formatting 7.0 Relative Costs and Benefits of Quality Levels 8.0 Information Sources Appendices: Surface Geophysical Methods for Utility Imaging Appendix A - General Appendix B - Electromagnetic Methods Appendix C - Magnetic Methods Appendix D - Elastic Wave Methods Appendix E - High-Cost, Very Specialized Methods Appendix F - Data Processing Techniques Index
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ASCE 39 03	STANDARD PRACTICE FOR THE DESIGN AND OPERATION OF HAIL SUPPRESSION PROJECTS	2003	Specifies a process through which hail suppression operations should be designed, organized, and conducted.	Commercial Facilities	Government Facilities	Residential Facilities	Emergency Services	1.0 The Hail Problem 1.1 Historical Perspective 1.2 The Status of Hail Suppression Technology 2.0 Hail Concepts 2.1 Requirements for Hail Development 2.2 The Scientific Basis for Hail Suppression 2.3 Concept Visualization 2.4 Cloud Modeling 3.0 The Design of Hail Suppression Operations 3.1 Definition of Project Scope 3.2 Delivery Methods 3.3 Seeding Agent Selection 3.4 Meteorological Data Collection 3.5 Selection and Siting of Equipment 3.6 Legal Issues 3.7 Environmental Concerns 4.0 Operation of Hail Suppression Projects 4.1 The Operations Manual 4.2 Personnel Requirements 4.3 Operational Decision-Making 4.4 Communications 4.5 Safety Considerations 4.6 Public Relations, Information, and Involvement 5.0 Evaluation of Hail Suppression Efforts 5.1 Project Evaluation Approaches 5.2 Evaluation measures 5.3 Dissemination of Results 6.0 Glossary of Terms and
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ASCE 41-06	SEISMIC REHABILITATION OF EXISTING BUILDINGS	2007	Describes nationally applicable provisions for the seismic rehabilitation of buildings.					Standards Foreword Acknowledgments 1.0 REHABILITATION REQUIREMENTS 2.0 SCOPE 3.0 ANALYSIS PROCEDURES 4.0 FOUNDATIONS AND GEOLOGIC SITE HAZARDS 5.0 STEEL 6.0 CONCRETE 7.0 MASONRY 8.0 WOOD AND LIGHT METAL FRAMING 9.0 SEISMIC ISOLATION AND ENERGY DISSIPATION 10.0 SIMPLIFIED REHABILITATION 11.0 ARCHITECTURAL, MECHANICAL, AND ELECTRICAL COMPONENTS Appendix APPENDIX A - USE OF THIS STANDARD FOR LOCAL OR DIRECTED RISK MITIGATION PROGRAMS SYMBOLS ACRONYMS DEFINITIONS
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ASCE 42 04	STANDARD PRACTICE FOR THE DESIGN AND OPERATION OF PRECIPITATION ENHANCEMENT PROJECTS	2004	Provides state-of-the-art cloud seeding technology applications for precipitation enhancement projects. By utilizing a variety of meteorological and hydrological observations, water resources engineers can evaluate the effectiveness of improving precipitation methods. Subjects discussed in this publication include the history and status of cloud seeding and the concepts, designs, operations, and evaluation of these projects.	Information Technology	Water and Wastewater Systems			FOREWORD LIST OF FIGURES SECTION 1.0 - INTRODUCTION TO PRECIPITATION ENHANCEMENT PROJECTS SECTION 2.0 - SCIENTIFIC BASIS OF NATURAL PRECIPITATION EFFICIENCY AND ITS MODIFICATION SECTION 3.0 - THE DESIGN OF PRECIPITATION ENHANCEMENT RESEARCH AND OPERATIONAL PROJECTS SECTION 4.0 - OPERATIONS OF PRECIPITATION ENHANCEMENT PROJECTS SECTION 5.0 - EVALUATION OF PRECIPITATION ENHANCEMENT PROJECTS SECTION 6.0 - GLOSSARY OF TERMS AND ACRONYMS SECTION 7.0 - REFERENCES SECTION 8.0 - CONVERSION OF UNITS Index
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ASCE 43 05	SEISMIC DESIGN CRITERIA FOR STRUCTURES, SYSTEMS, AND COMPONENTS IN NUCLEAR FACILITIES	2005	Specifies criteria for seismic design of safety-related Structures, Systems, and Components (SSCs) in a broad spectrum of nuclear facilities.	Nuclear Reactors, Materials, and Waste	Government Facilities			Foreword Acknowledgments Acronyms/Notation Definitions Standard 1.0 Introduction 2.0 Earthquake Ground Motion 3.0 Evaluation of Seismic Demand 4.0 Evaluation of Structural Capacity 5.0 Load Combinations and Acceptance Criteria for Structures 6.0 Ductile Detailing Requirements 7.0 Special Considerations 8.0 Equipment and Distribution Systems 9.0 Seismic Quality Provisions Appendix A A.0 Approximate Methods for Sliding and Rocking of an Unanchored Rigid Body Appendix B B.0 Commentary on and Examples of Approximate Methods for Sliding and Rocking of an Unanchored Rigid Body Commentary C1.0 Introduction C2.0 Earthquake Ground Motion C3.0 Evaluation of Seismic Demand C4.0 Evaluation of Structural Capacity C5.0 Load Combinations and Acceptance Criteria for Structures C6.0 Ductile Detailing Requirements C7.0 Special
ASCE 45 05	GUIDELINES FOR THE DESIGN OF URBAN STORMWATER SYSTEMS	2006	Defines design guidance for urban stormwater systems, covering topics such as airports, roads, and other transportation systems; and industrial, commercial, residential, and recreation areas.	Water and Wastewater Systems	Transportation Systems			Foreword Acknowledgements 1.0 SCOPE 2.0 DEFINITIONS 3.0 SITE ANALYSIS 4.0 HYDROLOGY 5.0 NONSTRUCTURAL CONSIDERATIONS 6.0 SYSTEM CONFIGURATION 7.0 HYDRAULIC DESIGN 8.0 STRUCTURAL DESIGN OF STORMWATER SYSTEMS 9.0 MATERIALS 10.0 REGULATIONS AND PERMITS 11.0 APPLICABLE DOCUMENTS/REFERENCES INDEX

ASCE 46 05	GUIDELINES FOR THE INSTALLATION OF URBAN STORMWATER SYSTEMS	2006	Defines construction guidance for urban stormwater systems, and discusses applications such as airports; roads and other transportation systems; and industrial, residential, and recreation areas.	Water and Wastewater Systems	Transportation Systems			Foreword Acknowledgements 1.0 SCOPE 2.0 DEFINITIONS 3.0 CONTRACT DOCUMENTS 4.0 PRECONSTRUCTION SITE INSPECTION 5.0 CONSTRUCTION 6.0 INSPECTION 7.0 REFERENCES APPENDICES INDEX
ASCE 47 05	GUIDELINES FOR THE OPERATION AND MAINTENANCE OF URBAN STORMWATER SYSTEMS	2006	Defines operation and maintenance guidance for urban stormwater systems. It also covers applications such as airports; roads and other transportation systems; and industrial, commercial, residential, and recreation areas.	Water and Wastewater Systems	Transportation Systems			Foreword Acknowledgements 1.0 SCOPE 2.0 DEFINITIONS 3.0 OPERATION AND MAINTENANCE PLAN 4.0 WATER QUALITY 5.0 PERIODIC INSPECTION 6.0 MAINTENANCE 7.0 APPLICABLE DOCUMENTS/REFERENCES INDEX
ASCE 5-13/6-13	BUILDING CODE REQUIREMENTS AND SPECIFICATION FOR MASONRY STRUCTURES	2013	Specifies the design and construction of masonry structures. Topics include: definitions, contract documents, quality assurance, materials, placement of embedded items, analysis and design, strength and serviceability, flexural and axial loads, shear, details and development of reinforcement, walls, columns, pilasters, beams and lintels, seismic design requirements, glass unit masonry, and veneers.	Commercial Facilities	Government Facilities	Residential Facilities		

ASCE 7 10	MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES	15/03/2013	Specifies minimum load requirements for the design of buildings and other structures that are subject to building code requirements.	Commercial Facilities	Government Facilities	Residential Facilities		STANDARDS FOREWORD ACKNOWLEDGMENTS DEDICATION 1 General 2 Combinations of Loads 3 Dead Loads, Soil Loads, and Hydrostatic Pressure 4 Live Loads 5 Flood Loads 6 Reserved for Future Provisions 7 Snow Loads 8 Rain Loads 9 Reserved for Future Provisions 10 Ice Loads - Atmospheric Icing 11 Seismic Design Criteria 12 Seismic Design Requirements for Building Structures 13 Seismic Design Requirements for Nonstructural Components 14 Material Specific Seismic Design and Detailing Requirements 15 Seismic Design Requirements for Nonbuilding Structures 16 Seismic Response History Procedures 17 Seismic Design Requirements for Seismically Isolated Structures 18 Seismic Design Requirements for Structures with Damping Systems 19 Soil-Structure Interaction for Seismic Design 20 Site Classification Procedure for Seismic Design 21
ASCE 9 91	STANDARD PRACTICE FOR THE CONSTRUCTION AND INSPECTION OF COMPOSITE SLABS	1994	Defines provisions applicable to composite slabs. It is intended as a guide document and not as a mandatory standard practice for: (a) good construction practice; (b) inspection procedures.	Commercial Facilities	Government Facilities	Residential Facilities		CHAPTER 1 - GENERAL CHAPTER 2 - CONSTRUCTION PRACTICE CHAPTER 3 - INSPECTION REQUIREMENTS APPLICABLE DOCUMENTS APPENDIX A - SI UNITS APPENDIX B - DECK MEASUREMENTS COMMENTARY INDEX
ASCE T&DI 58 10	STRUCTURAL DESIGN OF INTERLOCKING CONCRETE PAVEMENT FOR MUNICIPAL STREETS AND ROADWAYS	2010	Defines the procedures for the structural design of interlocking concrete pavements. Applies to paved areas subject to applicable permitted axle loads and trafficked up to 10 million 80-kN (18,000-lb)-equivalent single axle loads (ESALs).	Commercial Facilities	Government Facilities	Residential Facilities		Foreword Interlocking Concrete Pavers Standards Committee 1 General 2 Preparation for Pavement Design 3 Design Elements 4 Design Tables and Worked Examples 5 Other Design Considerations Glossary of Terms References Index

ASCE/EWRI 12-13, 13-13, 14-13	STANDARD GUIDELINES FOR THE DESIGN, INSTALLATION, AND OPERATION AND MAINTENANCE OF URBAN SUBSURFACE DRAINAGE	15/11/2013	ASCE/EWRI 12-13 Defines the state-of-the art design guidance for urban subsurface drainage in a logical order. ASCE/EWRI 13-13 Defines installation and construction guidance for urban subsurface drainage systems. ASCE/EWRI 14-13 Defines operation and maintenance guidance for urban subsurface drainage systems.	Water and Wastewater Systems				<p>Standard Guidelines for the Design of Urban Subsurface Drainage, ANSI/ASCE/EWRI 12-13</p> <p>FOREWORD</p> <p>ACKNOWLEDGMENTS 1</p> <p>Scope 2 Definitions</p> <p>3 Site Analysis 4</p> <p>System Configuration 5</p> <p>Drain Envelopes 6</p> <p>Hydraulics and Hydrology</p> <p>7 Structural Considerations</p> <p>8 Materials 9 Codes and Permits 10 References</p> <p>Standard Guidelines for the Installation of Urban Subsurface Drainage, ANSI/ASCE/EWRI 13-13</p> <p>FOREWORD</p> <p>ACKNOWLEDGMENTS</p> <p>1 Scope 2</p> <p>Definitions 3</p> <p>Contract Documents 4</p> <p>Site Investigation 5</p> <p>Installation 6</p> <p>Inspection 7</p> <p>References Appendix</p> <p>A - Recommended Use of Trench Boxes Standard Guidelines for the</p>
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ASCE/EWRI 33 09

COMPREHENSIVE
TRANSBOUNDARY WATER
QUALITY MANAGEMENT
AGREEMENT WITH
GUIDELINES FOR
DEVELOPMENT OF A
MANAGEMENT PLAN,
STANDARDS, AND CRITERIA

2009

Provides the most current
model for comprehensive
water quality planning and
management of shared
water resources. It also
provides a framework that
governments can adopt or
modify with regard to
riparian rights.

Water and Wastewater
Systems

Standards Foreword PREAMBLE
ARTICLE 1 - DECLARATION OF
PURPOSES AND POLICIES ARTICLE 2 -
GENERAL PROVISIONS ARTICLE 3 -
ADMINISTRATION ARTICLE 4 -
TRANSBOUNDARY WATER QUALITY
MANAGEMENT ARTICLE 5 -
FINANCING ARTICLE 6 - DISPUTE
RESOLUTION ARTICLE 7 -
IMPLEMENTATION ARTICLE 8 -
REFERENCES APPENDIX A -
GUIDELINES FOR DEVELOPMENT OF
A TRANSBOUNDARY WATER
QUALITY MANAGEMENT PLAN
APPENDIX B - GUIDELINES FOR THE
DEVELOPMENT OF
TRANSBOUNDARY WATER
QUALITY STANDARDS AND CRITERIA
INDEX

ASCE/EWRI 56/57 10	ASCE/EWRI 56-10 - GUIDELINES FOR THE PHYSICAL SECURITY OF WATER UTILITIES; ASCE/EWRI 57-10 - GUIDELINES FOR THE PHYSICAL SECURITY OF WASTEWATER/STORMWATER UTILITIES	2011	Pertains to physical security for facilities used in potable water source, treatment, and distribution systems.	Water and Wastewater Systems				ASCE/EWRI 56-10 FOREWORD ACKNOWLEDGMENTS GUIDELINES FOR THE PHYSICAL SECURITY OF WATER UTILITIES 1 Application of Guidelines 2 Raw Water Facilities 3 Wells and Pumping Stations 4 Water Treatment Plants 5 Finished Water Storage Facilities 6 Water Distribution Systems 7 Water System Support Facilities Appendix A - Physical Security Elements GLOSSARY AND ABBREVIATIONS REFERENCES INDEX ASCE/EWRI 57-10 FOREWORD ACKNOWLEDGMENTS GUIDELINES FOR THE PHYSICAL SECURITY OF WASTEWATER/STORMWATER UTILITIES 1 Application of Guidelines 2 Wastewater Treatment Plants 3 Collection Systems 4 Pumping Stations 5 Wastewater/Stormwater System Support Facilities Appendix A - Physical Security Elements GLOSSARY AND ABBREVIATIONS REFERENCES INDEX
ASCE/EWRI 60 12	GUIDELINE FOR DEVELOPMENT OF EFFECTIVE WATER SHARING AGREEMENTS	2012	Defines the basis for developing a complete, comprehensive, and well-integrated agreement for allocating and managing shared water resources. Also outlines a process to ensure that all pertinent factors are considered in the development of an agreement, so that the physical realities of the shared resources as well as the different political systems, cultures, and water use customs are accommodated.	Water and Wastewater Systems				

ASCE/SEI 49 12	WIND TUNNEL TESTING FOR BUILDINGS AND OTHER STRUCTURES	17/09/2012	Defines the minimum requirements for conducting and interpreting wind tunnel tests to determine wind loads on buildings and other structures.	Commercial Facilities	Government Facilities	Residential Facilities		
ASCE/SEI 55 10	TENSILE MEMBRANE STRUCTURES	2010	Gives minimum criteria for the design and performance of membrane-covered cable and rigid member structures, including frame structures, collectively known as tensile membrane structures. It also includes permanent and temporary structures.	Commercial Facilities	Government Facilities	Residential Facilities		Standards Foreword Acknowledgements Tensile Membrane Structures Standard Committee Roster 1 General 2 Membrane Materials 3 Connections 4 Design 5 Fabrication and Erection Appendix A - Special Provisions Appendix B - A Procedure for Determining Modulus of Elasticity Bibliography Commentary Index
ASCE/SEI 59 11	BLAST PROTECTION OF BUILDINGS	2011	Defines minimum planning, design, construction, and assessment requirements for new and existing buildings subject to the effects of accidental or malicious explosions, including principles for establishing appropriate threat parameters, levels of protection, loadings, analysis methodologies, materials, detailing, and test procedures.	Commercial Facilities	Government Facilities	Residential Facilities		FOREWORD ACKNOWLEDGMENTS 1 General 2 Design Considerations 3 Performance Criteria 4 Blast Loads 5 Fragmentation 6 Structural Systems 7 Protection of Spaces 8 Exterior Envelope 9 Materials Detailing 10 Performance Qualification COMMENTARY INDEX

ASHRAE GUIDELINE 29	GUIDELINE FOR THE RISK MANAGEMENT OF PUBLIC HEALTH AND SAFETY IN BUILDINGS	24/10/2009	Provides qualitative and quantitative methods for management of the risk of extraordinary incidents in buildings. Specific subject areas of concern include air, food, and water.	Commercial Facilities	Government Facilities	Residential Facilities	Societal	Foreword 1 Purpose 2 Scope 3 Definitions 4 Risk Management Approach 5 Design for New and Existing Facilities 6 Operation and Maintenance of Buildings 7 References Informative Appendix A - Risk Management Example Informative Appendix B - Supplemental Information Informative Appendix C - Bibliography
ASHRAE 169	CLIMATIC DATA FOR BUILDING DESIGN STANDARDS		Describes weather data used in ashrae standards, including dry-bulb, dew-point, and wet-bulb temperatures; enthalpy; humidity ratio; wind conditions; solar irradiation; latitude; longitude; and elevation for locations worldwide.	Commercial Facilities	Government Facilities	Residential Facilities		Foreword 1 Purpose 2 Scope 3 Definitions, Abbreviations, and Acronyms 4 Climatic Design Data and Climate Zones 5 U.S. Climate Zones by County 6 International Climate Zone Maps Normative Appendix A: Climatic Design Data and Climate Zones Normative Appendix B: Climate Zones For U.S. States and Counties Informative Appendix C: Climate Zone Maps Informative Appendix D: Addenda Description Information

ASHRAE 189.1	STANDARD FOR THE DESIGN OF HIGH-PERFORMANCE GREEN BUILDINGS - EXCEPT LOW-RISE RESIDENTIAL BUILDINGS	5/9/2013	Gives minimum requirements for the siting, design, construction, and plan for operation of high-performance green buildings to (a) balance environmental responsibility, resource efficiency, occupant comfort and well being, and community sensitivity, and (b) support the goal of development that meets the needs of the present without compromising the ability of future generations to meet their own needs.	Energy	Commercial Facilities	Government Facilities	Residential Facilities	Foreword 1 Purpose 2 Scope 3 Definitions, Abbreviations, and Acronyms 4 Administration and Enforcement 5 Site Sustainability 6 Water Use Efficiency 7 Energy Efficiency 8 Indoor Environmental Quality (IEQ) 9 The Building's Impact on the Atmosphere, Materials, and Resources 10 Construction and Plans for Operation 11 Normative References Normative Appendix A: Prescriptive Building Envelope Tables Normative Appendix C: Prescriptive Equipment Efficiency Tables Normative Appendix D: Performance Option for Energy Efficiency Normative Appendix F: Building Concentrations Informative Appendix G: Informative
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ASHRAE GUIDELINE 12	MINIMIZING THE RISK OF LEGIONELLOSIS ASSOCIATED WITH BUILDING WATER SYSTEMS	2010	Covers specific environmental and operational guidelines that contributes to the safe operation of building water systems to minimize the risk of occurrence of Legionellosis.	Water and Wastewater Systems	Commercial Facilities	Government Facilities	Residential Facilities	<ul style="list-style-type: none"> 1 Purpose 2 Scope 3 Ecology of Legionella 4 Potable and Emergency Water Systems 5 Heated Spas 6 Architectural Fountains and Waterfall Systems 7 Cooling Towers Including Fluid Coolers (Closed-Circuit Cooling Towers) and Evaporative Condensers 8 Direct Evaporative Air Coolers, Misters (Atomizers), Air Washers, and Humidifiers 9 Indirect Evaporative Air Coolers 10 Metalworking Systems 11 Monitoring for Legionella 12 References Annex A: Bibliography
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ASHRAE GUIDELINE 32	SUSTAINABLE, HIGH-PERFORMANCE OPERATIONS AND MAINTENANCE	25/01/2012	Pertains to the ongoing operational practices for a building and its systems, particularly with respect to energy efficiency, occupant comfort, indoor air quality (IAQ), health and safety.	Energy	Commercial Facilities	Government Facilities	Residential Facilities	Foreword 1 Purpose 2 Scope 3 Definitions, Abbreviations, and Acronyms 4 Intended Users of the Guideline 5 Level 1: Senior Management Steps 6 Level II: Action Areas for Facility Managers - Implementing the Change 7 Level III: Actions and Tools for Technicians - Carrying Out Best Practices 8 References 9 Bibliography Informative Annex A: Additional Resources Informative Annex B: Benchmarking and Building Rating Systems Informative Annex C: Maintaining Indoor Air Quality (IAQ) Informative Annex D: Measurement and Occupant Surveys for Comfort and Indoor Environmental Quality (IEQ) Informative Annex E: Training Needs Assessment Informative Annex F: Building Information Modeling (BIM) Informative Annex G: Predictive Maintenance Techniques Informative Annex H: Guidance for HVAC Energy Savings Informative Annex I: Energy Performance
ASIS SPC.3	Resilience in the supply chain	In development	Expands the scope of the ANSI/ASIS SPC.1:2009 standard to include resilience in the supply chain.	Business Continuity				
ASIS SPC.5	Community Resilience: Guidance on Capacity Building and Public-Private Partnerships Stanard	In development	Provides guidance to address the interfaces between individual, organizational and community resilience to enhance public-private partnerships and resilience planning.	Business Continuity				

ASSE 1001	PERFORMANCE REQUIREMENTS FOR ATMOSPHERIC TYPE VACUUM BREAKERS		Gives protection of the potable water supply against pollutants or contaminants that enter the system due to backsiphonage through the outlet. Applies to atmospheric type vacuum breakers that are single pipe-applied.					Section I 1.1 Application 1.2 Scope 1.3 Limitations on Design 1.4 Reference Standards Section II 2.0 Test Specimens 2.1 Samples Submitted for Test 2.2 Samples Tested 2.3 Drawings 2.4 Rejection Section III 3.0 Performance Requirements and Compliance Testing 3.1 Hydrostatic Test of the Complete Device 3.2 Deterioration at Extremes of Manufacturer's Temperature Range Test Figure 1 Table 1 3.3 Allowable Pressure Loss at Rated Flow Test Table 2 3.4 Examination of Air Inlet Shield 3.5 Air Flow Test Figure 2A Figure 2B Figure 3A Figure 3B 3.6 Backsiphonage Test Table 3 Figure 4 Figure 5 Figure 6 3.7 Evaluation of Female Threaded Connections Section IV 4.0 Detailed Requirements 4.1 Materials 4.2 Markings 4.3 Installation and Maintenance Instruction Section V 5.0 Definitions
ASSE 1003	PERFORMANCE REQUIREMENTS FOR WATER PRESSURE REDUCING VALVES FOR DOMESTIC WATER DISTRIBUTION SYSTEMS		Covers self-contained, direct acting single diaphragm type valves. Valves shall be permitted to have an integral strainer, separate strainer connected to the valve inlet, or be without strainer.					
ASSE 1012	PERFORMANCE REQUIREMENTS FOR BACKFLOW PREVENTER WITH INTERMEDIATE ATMOSPHERIC VENT		Devices which have functional capabilities for preventing both back siphonage and back pressure backflow in watersupply lines, and which can operate under continuous or intermittent pressure conditions.					

ASSE 1013	PERFORMANCE REQUIREMENTS FOR REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTERS AND REDUCED PRESSURE PRINCIPLE FIRE PROTECTION BACKFLOW PREVENTERS		Pertains to Reduced Pressure Principle Backflow Preventers (RP) and Reduced Pressure Principle Fire Protection Backflow Preventers (RPF). Also pertains to Manifold Reduced Pressure Principle Backflow Assemblies consisting of two (2) or more complete Reduced Pressure Principle Backflow Preventers in parallel.					
ASSE 1024	PERFORMANCE REQUIREMENTS FOR DUAL CHECK BACKFLOW PREVENTERS		Two independently acting check valves - operates under intermittent or continuous pressure conditions.					
ASSE 1030	PERFORMANCE REQUIREMENTS FOR POSITIVE PRESSURE REDUCTION DEVICES FOR SANITARY DRAINAGE SYSTEMS		Aims at reducing the impact of short duration air pressure transients, which arise in drainage waste and vent systems networks through use.					
ASSE 1037	PRESSURIZED FLUSHING DEVICES (FLUSHOMETERS) FOR PLUMBING FIXTURES		Requirements for pressurized flushing devices, for the safe and sanitary operation of plumbing fixtures.					
ASSE 1044	TRAP SEAL PRIMER VALVES - DRAINAGE TYPE		Designed to supply water to a trap to provide and maintain its water seal using a feed system from a fixture drainline.					

ASSE 1047	PERFORMANCE REQUIREMENTS FOR REDUCED PRESSURE DETECTOR FIRE PROTECTION BACKFLOW PREVENTION ASSEMBLIES		Defines the purpose of a Reduced Pressure Detector Fire Protection Backflow Prevention Assembly to keep contaminated water from fire protection systems from flowing back into a potable water distribution system when some abnormality in the system causes the pressure to be temporarily higher in the contaminated part of the system than in the potable water supply piping.	Water and Wastewater Systems				
ASSE 1048	PERFORMANCE REQUIREMENTS FOR DOUBLE CHECK DETECTOR FIRE PROTECTION BACKFLOW PREVENTION ASSEMBLIES		Defines the purpose of a Double Check Detector Fire Protection Backflow Prevention Assembly to keep polluted water from fire protection systems from flowing into a potable water distribution system when some abnormality in the system causes the pressure to be temporarily higher in the polluted part of the system than in the potable water supply piping.	Water and Wastewater Systems				
ASSE 1049	PERFORMANCE REQUIREMENTS FOR INDIVIDUAL AND BRANCH TYPE AIR ADMITTANCE VALVES FOR CHEMICAL WASTE SYSTEMS		Defines AAVCs devices used in chemical waste systems to prevent the siphonage of trap seals.	Water and Wastewater Systems				

ASSE 1052	PERFORMANCE REQUIREMENTS FOR HOSE CONNECTION BACKFLOW PREVENTERS		Consists of two independent checks, force loaded or biased to a closed position, with an atmospheric vent located between the two check valves which is force loaded or biased to an open position, and a means for attaching a hose.	Water and Wastewater Systems				
ASSE 1053	PERFORMANCE REQUIREMENTS FOR DUAL CHECK BACKFLOW PREVENTER WALL HYDRANTS - FREEZE RESISTANT TYPE	15/04/2005	Establishes design and performance requirements and test procedures for Dual Check Backflow Preventer Wall Hydrants - Freeze Resistant. Provides protection of the potable water supply from contamination due to backsiphonage or backpressure without damage to the device due to freezing, and is field testable to verify protection under the high hazard conditions present at a hose threaded outlet.	Water and Wastewater Systems				
ASSE 1057	PERFORMANCE REQUIREMENTS FOR FREEZE RESISTANT SANITARY		Gives protection of the potable water supply from contamination due to ground water and to prevent backflow in accordance with the backflow prevention device selected.	Water and Wastewater Systems				

ASSE 1060	OUTDOOR ENCLOSURES FOR FLUID CONVEYING COMPONENTS		Gives the requirements of an outside enclosure for various types of backflow prevention assemblies. It includes enclosure types for freezing and non-freezing locations. The enclosures incorporate features to provide for freeze protection, positive drainage to prevent submergence of the assembly, security and accessibility for testing and repair.	Water and Wastewater Systems				
ASSE 1063	PERFORMANCE REQUIREMENTS FOR AIR VALVE & VENT INTAKE PREVENTERS		Allows the release and admission of high volumes of air through air valves and air vents in water distribution systems but prevent the entry of contaminated water when the air valve outlet becomes submerged from flooding or is the target of malicious tampering.	Water and Wastewater Systems				
ASSE 1071	PERFORMANCE REQUIREMENTS FOR TEMPERATURE ACTUATED MIXING VALVES FOR PLUMBED EMERGENCY EQUIPMENT		Specifies devices which consist of a hot water inlet connection, a cold water inlet connection, a mixed water outlet connection, a temperature controlling element and a means for adjusting the mixed water outlet temperature while in service.	Water and Wastewater Systems				
ASSE 1072	PERFORMANCE REQUIREMENTS FOR BARRIER TYPE FLOOR DRAIN TRAP SEAL PROTECTION DEVICES		Defines an alternative method of protecting floor drain water trap seals- Barrier-Type Floor Drain Trap Seal Devices.	Water and Wastewater Systems				

AWWA C651	Disinfecting Water Mains	1/6/2005	Defines essential procedures for the disinfection of new and repaired potable water mains.	Water and Wastewater Systems				<p>Foreword</p> <p>I Introduction</p> <p>II Special Issues</p> <p>III Use of This Standard</p> <p>IV Major Revisions</p> <p>V Comments</p> <p>Standard</p> <p>1 General</p> <p>2 References</p> <p>3 Definitions</p> <p>4 Requirements</p> <p>5 Verification</p> <p>6 Delivery</p> <p>Appendixes</p> <p>A - Chlorine Residual Testing</p> <p>B - Chlorine Dosages</p> <p>C - Disposal of Heavily Chlorinated Water</p>
AWWA C653	Disinfection of Water Treatment Plants	1/12/2013	Specifies chlorination materials, procedures, and Requirements for disinfection of new treatment facilities and existing water treatment facilities temporarily taken out of service for cleaning, inspection, maintenance, painting, repair, or any other activity or event that might lead to contamination of water.	Water and Wastewater Systems				<p>Foreword</p> <p>I Introduction</p> <p>II Special Issues</p> <p>III Use of This Standard</p> <p>IV Major Revisions</p> <p>V Comments</p> <p>Standard</p> <p>1 General</p> <p>2 References</p> <p>3 Definitions</p> <p>4 Requirements</p> <p>5 Verification</p> <p>6 Delivery</p>

AWWA C654	Disinfection of Wells	1/7/2013	Defines the procedures for disinfection and bacteriological testing of wells for potable water service following construction, servicing, maintenance, or any other activity or event that might lead to contamination of the water.	Water and Wastewater Systems				Foreword I Introduction II Special Issues III Use of This Standard IV Major Revisions V Comments Standard 1 General 2 References 3 Definitions 4 Requirements 5 Verification Appendix A - Chemical Requirements for 50-mg/L Chlorine Solution
AWWA D	water storage tanks			Water and Wastewater Systems				
AWWA G300	Source Water Protection	1/6/2014	Defines the essential requirements for the effective protection of source waters.	Water and Wastewater Systems				Foreword I Introduction II Special Issues III Use of This Standard IV Major Revisions V Comments Standard 1 General 2 References 3 Definitions 4 Requirements 5 Verification 6 Delivery Appendixes A - Bibliography

AWWA G430	SECURITY PRACTICES FOR OPERATION AND MANAGEMENT		Describes the minimum requirements for a protective security program for a water or wastewater utility.	Water and Wastewater Systems				Foreword I Introduction II Special Issues III Use of This Standard IV Major Revisions V Comments Standard 1 General 2 References 3 Definitions 4 Requirements 5 Verification 6 Delivery Appendix A - Resources
AWWA M11	STEEL PIPE: A GUIDE FOR DESIGN AND INSTALLATION	1/12/2013	Includes complete information for designing, installing, and maintaining steel pipe and fittings for potable water transmission and distribution.	Water and Wastewater Systems	Transportation Systems			Foreword Acknowledgments Chapter 1 - History, Uses, and Physical Characteristics of Steel Pipe Chapter 2 - Manufacture and Testing Chapter 3 - Hydraulics of Pipelines Chapter 4 - Determination of Pipe Wall Thickness Chapter 5 - Water Hammer and Pressure Surge Chapter 6 - External Loads Chapter 7 - Supports for Pipe Chapter 8 - Pipe Joints Chapter 9 - Fittings and Appurtenances Chapter 10 - Principles of Corrosion and Corrosion Control Chapter 11 - Protective Coatings and Linings Chapter 12 - Transportation, Installation, and Testing Chapter 13 - Supplementary Design Data and Details Appendix A - Table of Working Pressures for Allowable Unit Stresses

AWWA M19	EMERGENCY PLANNING FOR WATER UTILITIES	2001	Provides techniques for developing contingency plans for a variety of emergencies from natural disasters to human-caused crises. Also describes how to develop an emergency preparedness plan, how to identify vulnerabilities in your water system, and how to determine how a disruption would likely impact service.	Water and Wastewater Systems	Emergency Services			Foreword Acknowledgments Chapter 1 - Overview Chapter 2 - Hazard Summary Chapter 3 - Vulnerability Assessment Chapter 4 - Mitigation Actions Chapter 5 - Preparedness Planning Chapter 6 - Emergency Response, Recovery, and Training Appendix A - South Carolina's Guide for Hurricane Procedures Bibliography Index List of AWWA Manuals
AWWA M19	EMERGENCY PLANNING FOR WATER UTILITIES	2001	Provides techniques for developing contingency plans for a variety of emergencies from natural disasters to human-caused crises. Also describes how to develop an emergency preparedness plan, how to identify vulnerabilities in your water system, and how to determine how a disruption would likely impact service.	Water and Wastewater Systems	Emergency Services			Foreword Acknowledgments Chapter 1 - Overview Chapter 2 - Hazard Summary Chapter 3 - Vulnerability Assessment Chapter 4 - Mitigation Actions Chapter 5 - Preparedness Planning Chapter 6 - Emergency Response, Recovery, and Training Appendix A - South Carolina's Guide for Hurricane Procedures Bibliography Index List of AWWA Manuals

AWS D1.1/D1.1M	STRUCTURAL WELDING CODE - STEEL	2010 ERRATA 2011	Covers the requirements for fabricating and erecting welded steel structures.	Commercial Facilities	Government Facilities	Residential Facilities		Dedication Personnel Foreword List of Tables List of Figures 1. General Requirements 2. Design of Welded Connections 3. Prequalification of WPSs 4. Qualification 5. Fabrication 6. Inspection 7. Stud Welding 8. Strengthening and Repairing Existing Structures Annexes Annex A (Normative) - Effective Throat Annex B (Normative) - Effective Throats of Fillet Welds in Skewed T-Joints Annex D (Normative) - Flatness of Girder Webs - Statically Loaded Structures Annex E (Normative) - Flatness of Girder Webs - Cyclically Loaded Structures Annex F (Normative) - Temperature-
ATC-58	Development of Next-Generation Performance-Based Seismic Design Criteria			Commercial Facilities	Government Facilities	Residential Facilities		
ANSI/ARMA 5	Vital Record Programs: Identifying, Managing and Recovering Business Critical Records	2010	This publication addresses the establishment of a vital records program. It includes clarification of what a vital records program encompasses and the requirements for identifying and protecting vital records, assessing and analyzing their vulnerability, and determining the impact of their loss on the organization.	Business Continuity	Commercial Facilities	Government Facilities		

VDI 2100-1	Gaseous ambient air pollution measurement - indoor air pollution measurement - gas chromatographic determination of organic compounds - fundamentals	1/6/2008		Commercial Facilities	Government Facilities	Residential Facilities	<p>Vorbemerkung</p> <p>1 Einleitung</p> <p>2 Problemfeld</p> <p>3 Abkürzungen</p> <p>4 Probenahmeverfahren</p> <p>4.1 Allgemeines</p> <p>4.2 Probenahme ohne Anreicherung</p> <p>4.3 Probenahme mit Anreicherung</p> <p>4.4 Transport und Lagerung</p> <p>5 Probenaufbereitung und Dosierung</p> <p>5.1 Allgemeines</p> <p>5.2 Direkte Dosierung von gasförmigen Proben</p> <p>5.3 Probenaufbereitung und Dosierung von einer festen Sammelphase</p> <p>6 Chromatographische Trennung</p> <p>6.1 Allgemeines</p> <p>6.2 Säulentyp und -material</p> <p>6.3 Stationäre Phase und Filmdicke</p> <p>6.4 Leistungskriterien</p> <p>6.5 Wahl geeigneter chromatographischer Betriebsbedingungen</p> <p>7 Detektion</p> <p>7.1 Allgemeines</p>
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VDI 2263	DUST FIRES AND DUST EXPLOSIONS; HAZARDS, ASSESSMENT, PROTECTIVE MEASURES	1/5/1992	Provides to assess the hazards and the measures taken to prevent dust fires and dust explosions, as well as their dangerous results.	Commercial Facilities	Government Facilities	Residential Facilities	Emergency Services	Vorbemerkung 1 Geltungsbereich 2 Begriffe 3 Gefahren durch brennbare Staube 3.1 Entstehen von Staub 3.1.1 Nutzstaub 3.1.2 Abfallstaub 3.2 Brand- und Explosionsverhalten von Staub 3.2.1 Abgelagerter Staub 3.2.2 Aufgewirbelter Staub 4 Untersuchungsverfahren zur Beurteilung von Staub 4.1 Staubprobe, Probenvorbereitung, Testprobe 4.2 Abgelagerter Staub 4.2.1 Entzundbarkeit 4.2.2 Brennverhalten 4.2.3 Glimmtemperatur 4.2.4 Selbstentzundung 4.2.5 Exotherme Zersetzung 4.3 Aufgewirbelter Staub 4.3.1 Staubexplosionsfahigkeit 4.3.2 Explosionsgrenzen 4.3.3 Maximaler Explosionsdruck, maximaler zeitlicher Druckanstieg, K[St]-Wert
VDI 3819-2	FIRE PROTECTION BUILDING SERVICES - FUNCTIONS AND CORRELATIONS	1/7/2013		Commercial Facilities	Government Facilities	Residential Facilities	Emergency Services	
VDI 3819-3	FIRE PROTECTION IN BUILDING SERVICES - FIRE PROTECTION PLANNING AND BRIEFING - OBLIGATIONS, CONTENTS AND DOCUMENTATION	1/1/2009		Commercial Facilities	Government Facilities	Residential Facilities	Emergency Services	

VDI 6004-1	PROTECTION OF BUILDING SERVICES - FLOOD - BUILDINGS, INSTALLATIONS, EQUIPMENT	1/6/2006		Commercial Facilities	Government Facilities	Residential Facilities	Water and Wastewater Systems	Vorbemerkungen 1 Geltungsbereich 2 Begriffe und Definitionen 3 Risiken und Schäden 3.1 Hochwasserschäden und ihre Ursachen 3.2 Gesetzliche Anforderungen und Schutzziele 3.3 Verantwortung 3.4 Strategie zur Schadenbegrenzung 3.5 Risikotransfer 4 Vorsorgemassnahmen 4.1 Mobiler Hochwasserschutz 4.2 Bauliche Massnahmen 4.3 Organisatorische Massnahmen 5 Hochwasserangepasste TGA-Installationen 5.1 Elektrische Anlagen 5.2 Trinkwasserversorgung 5.3 Gebäudeentwässerung 5.4 Heizungsanlagen 5.5 Gasinstallationen 5.6 Raumluftechnische Anlagen 5.7 Kälteanlagen 5.8 TGA-Anlagen im Aussenbereich 5.9 Aufzugsanlagen 5.10 Leitungsdurchführungen innen/aussen - Durchdringungen 5.11 Kommunikationsnetze 5.12 Hochwasserpumpenanlagen
VDI 6028-1-1	ASSESSMENT CRITERIA FOR BUILDING SERVICES - TECHNICAL QUALITY FOR SUSTAINABLE BUILDINGS	1/11/2013		Commercial Facilities	Government Facilities	Residential Facilities		
VDI 6200	STRUCTURAL SAFETY OF BUILDINGS - REGULAR INSPECTIONS	1/2/2010		Commercial Facilities	Government Facilities	Residential Facilities		
ANSI/AMD 100	Structural Performance Ratings of Side-Hinged Door Systems and Procedures for Component Substitution	2013	Provides producers of side-hinged exterior door systems (SHEDS) with a cost-effective, code-recognized standard for testing and labeling structural performance ratings.					

ASTM 04.12	CONSTRUCTION - BUILDING CONSTRUCTIONS (2) - E 2112 LATEST - SUSTAINABILITY - PROPERTY MANAGEMENT SYSTEMS - TECHNOLOGY AND UNDERGROUND UTILITIES	1/11/2013	Contains 161 Standards.	Commercial Facilities	Government Facilities	Residential Facilities		
ASTM C1193	Standard Guide for Use of Joint Sealants	2009		Commercial Facilities	Government Facilities	Residential Facilities		
ASTM C1382	Test Method for Determining Tensile Adhesion Properties of Sealants When Used in Exterior Insulation and Finish Systems (EIFS) Joints	2005		Commercial Facilities	Government Facilities	Residential Facilities		
ASTM C1397	Standard Practice for Application of Class PB Exterior Insulation and Finish Systems	2009		Commercial Facilities	Government Facilities	Residential Facilities		
ASTM C1481	Standard Guide for Use of Joint Sealants with Exterior Insulation and Finish Systems	2006		Commercial Facilities	Government Facilities	Residential Facilities		
ASTM C1535	Standard Practice for Application of Exterior Insulation and Finish Systems Class PI	2005		Commercial Facilities	Government Facilities	Residential Facilities		
ASTM D1356	TERMINOLOGY RELATING TO SAMPLING AND ANALYSIS OF ATMOSPHERES	1/6/2014	CONTAINED IN VOL. 11.03, 2014 Defines a collective vocabulary relating to sampling and analysis of atmospheres.	Chemical				

ASTM D5952	GUIDE FOR THE INSPECTION OF WATER SYSTEMS FOR LEGIONELLA AND THE INVESTIGATION OF POSSIBLE OUTBREAKS OF LEGIONELLOSIS (LEGIONNAIRES'DISEASE OR PONTIAC FEVER)	1/7/2008	CONTAINED IN VOL. 11.03, 2014 Defines the appropriate responses for employers, building owners and operators, facility managers, health and safety professionals, public health authorities, and others: 1) With concern that a manmade water system may be contaminated with bacteria known as legionella, 2) To identify one or more cases of legionnaire's disease or Pontiac fever.	Water and Wastewater Systems				
ASTM D6306	Guide for Placement and Use of Diffusion Controlled Passive Monitors for Gaseous Pollutants in Indoor Air	1/4/2010	CONTAINED IN VOL. 11.03, 2014 Describes the placement and use of diffusion controlled monitors in the indoor atmosphere.	Chemical				
ASTM D6327	Test Method for Determination of Radon Decay Product Concentration and Working Level in Indoor Atmospheres by Active Sampling on a Filter	1/6/2010	CONTAINED IN VOL. 11.03, 2014 Gives instruction for using the grab sampling filter technique to determine accurate and reproducible measurements of indoor radon decay product (RDP) concentrations and of the working level value corresponding to those concentrations.	Chemical				

ASTM D6345	Guide for Selection of Methods for Active, Integrative Sampling of Volatile Organic Compounds in Air	1/6/2010	CONTAINED IN VOL. 11.03, 2012 Gives assistance in the selection of active integrative sampling methods, in which the volatile organic analytes are collected from air over a period of time by drawing the air into the sampling device, with subsequent recovery for analysis.	Chemical				
ASTM D7316	Guide for Interpretation of Existing Field Instrumentation to Influence Emergency Response Decisions	1/1/2007	CONTAINED IN VOL. 11.02, 2009 Provides useful information for the interpretation of radiological instrument responses in the event of a radiological incident or emergency.	Nuclear Reactors, Materials, and Waste	Emergency Services			
ASTM D7520	Test Method for Determining the Opacity of a Plume in the Outdoor Ambient Atmosphere	1/1/2014	CONTAINED IN VOL. 11.07, 2014 Defines the procedures to determine the opacity of a plume, using digital imagery and associated hardware and software.	Chemical				
ASTM E1445	Terminology Relating to Hazard Potential of Chemicals	1/7/2008	CONTAINED IN VOL. 14.02, 2012 Describes terminology used in the area of hazard potential of chemicals.	Chemical				
ASTM E1688	Guide for Determination of the Bioaccumulation of Sediment-Associated Contaminants by Benthic Invertebrates	1/7/2010	CONTAINED IN VOL. 11.06, 2013 Defines procedures for measuring the bioaccumulation of sediment-associated contaminants by infaunal invertebrates.	Chemical				

ASTM E2020	Guide for Data and Information Options for Conducting an Ecological Risk Assessment at Contaminated Sites	1999. Reapproved 2010	CONTAINED IN VOL. 11.06, 2013 Pertains to assist remedial project teams, specifically ecological risk assessors, in identifying data and information options that may be used to perform a screening or complex ecological risk assessment (ERA) at a contaminated site.	Chemical	Healthcare and Public Health			
ASTM E2032	Guide for Extension of Data From Fire Resistance Tests Conducted in Accordance with ASTM E?119	2009(R2013)	CONTAINED IN VOL. 04.07, 2014 Describes the extension of fire resistance ratings obtained from fire tests performed in accordance with Test Method E 119 to constructions that have not been tested.	Commercial Facilities	Government Facilities	Residential Facilities		
ASTM E2098	Standard Test Method for Determining Tensile Breaking Strength of Glass Fiber Reinforcing Mesh for Use in Class PB Exterior Insulation and Finish Systems (EIFS), after Exposure to a Sodium Hydroxide Solution	2006		Commercial Facilities	Government Facilities	Residential Facilities		
ASTM E2121	PRACTICE FOR INSTALLING RADON MITIGATION SYSTEMS IN EXISTING LOW-RISE RESIDENTIAL BUILDINGS	1/3/2013	CONTAINED IN VOL. 04.12, 2013 Specifies methods for reducing radon entry into existing attached and detached residential buildings three stories or less in height.	Chemical	residential facilities			

ASTM E2129	PRACTICE FOR DATA COLLECTION FOR SUSTAINABILITY ASSESSMENT OF BUILDING PRODUCTS	1/11/2010	CONTAINED IN VOL. 04.12, 2012 Provides a set of instructions for collecting data to be used in assessing the sustainability of elements or products for use in both commercial and residential buildings.	Commercial Facilities	Government Facilities	Residential Facilities		
ASTM E2134	Standard Test Method for Evaluating the Tensile-Adhesion Performance of an Exterior Insulation and Finish System (EIFS)	2006		Commercial Facilities	Government Facilities	Residential Facilities		
ASTM E2238	GUIDE FOR EVACUATION ROUTE DIAGRAM	1/11/2012	CONTAINED IN VOL. 11.03, 2012 Specifies minimum guidelines for the design and placement of evacuation route diagrams (ERDs) used in buildings. Covers the evacuation of building occupants when directed by emergency response authorities in emergencies such as fire, earthquake, and bomb threat.	Commercial Facilities	Government Facilities	Residential Facilities		
ASTM E2273	Standard Test Method for Determining the Drainage Efficiency of Exterior Insulation and Finish Systems (EIFS) Clad Walls	2003		Commercial Facilities	Government Facilities	Residential Facilities		
ASTM E2321	Standard Practice for Use of Test Methods E 96 for Determining the Water Vapor Transmission (WVT) of Exterior Insulation and Finish Systems (EIFS)	2003		Commercial Facilities	Government Facilities	Residential Facilities		
ASTM E2359	Standard Test Method for Field Pull Testing of an In-Place Exterior Insulation and Finish System Clad Wall Assembly	2006		Commercial Facilities	Government Facilities	Residential Facilities		

ASTM E2392/E2392M	GUIDE FOR DESIGN OF EARTHEN WALL BUILDING SYSTEMS	1/5/2010	CONTAINED IN VOL. 04.12, 2012 Specifies guidance for earthen building systems, also called earthen construction, and addresses both technical requirements and considerations for sustainable development.	Commercial Facilities	Government Facilities	Residential Facilities		
ASTM E2411	Specification for Chemical Warfare Vapor Detector (CWVD)	1/3/2007	CONTAINED IN VOL. 15.08, 2013 Defines the technical and mission requirements for the use of a CWVD and relates each of the performance and electrical shock and fire parameters to a detector requirement.	Commercial Facilities	Government Facilities	Residential Facilities		
ASTM E2413	GUIDE FOR HOSPITAL PREPAREDNESS AND RESPONSE	2009	CONTAINED IN VOL. 15.08, 2014 Describes concepts, principles, and practices of an all-hazards comprehensive emergency management program for the planning, mitigation, response, recovery, and coordination of hospitals in response to a major incident.	Healthcare and Public Health	Government Facilities	Residential Facilities	Emergency Services	
ASTM E2413	Standard Guide for Hospital Preparedness and Response	2009		Commercial Facilities	Government Facilities	Residential Facilities		
ASTM E2430	Standard Specification for Expanded Polystyrene ("EPS") Thermal Insulation Boards For Use In Exterior Insulation and Finish System (EIFS)	2005		Commercial Facilities	Government Facilities	Residential Facilities		

ASTM E2432	GUIDE FOR GENERAL PRINCIPLES OF SUSTAINABILITY RELATIVE TO BUILDINGS	1/8/2011	CONTAINED IN VOL. 04.12, 2012 Specifies the fundamental concepts and associated building characteristics for each of the general principles of sustainability.	Commercial Facilities	Government Facilities	Residential Facilities		
ASTM E2485	Standard Test Method for Freeze/Thaw Resistance of Exterior Insulation and Finish Systems (EIFS) and Water Resistive Barrier Coatings	2006		Commercial Facilities	Government Facilities	Residential Facilities		
ASTM E2486	Standard Test Method for Impact Resistance of Class PB and PI Exterior Insulation and Finish Systems (EIFS)	2006		Commercial Facilities	Government Facilities	Residential Facilities		
ASTM E2506	GUIDE FOR DEVELOPING A COST-EFFECTIVE RISK MITIGATION PLAN FOR NEW AND EXISTING CONSTRUCTED FACILITIES	1/4/2011	CONTAINED IN VOL. 04.12, 2012 Defines a generic framework for developing a cost-effective risk mitigation plan for new and existing constructed facilities - buildings, industrial facilities, and other critical infrastructure.	Commercial Facilities	Government Facilities	Residential Facilities		
ASTM E2511	Standard Guide for Detailing of EIFS-Clad Wall Assemblies	2009		Commercial Facilities	Government Facilities	Residential Facilities		
ASTM E2520-07	Practice for Verifying Minimum Acceptable Performance of Trace Explosive Detectors	1/3/2007	CONTAINED IN VOL. 15.08, 2012 Evaluates the detector response to evaporated residues of low-concentration solutions of explosive compounds placed on test swipes. The solutions used for this evaluation are prepared in a suitable organic solvent and contain a single high explosive.	Chemical				

ASTM E2531	Guide for Development of Conceptual Site Models and Remediation Strategies for Light Nonaqueous-Phase Liquids Released to the Subsurface	1/7/2009	CONTAINED IN VOL. 11.05, 2012 Defines guidelines applies to sites with LNAPL present as residual, free, or mobile phases, and anywhere that LNAPL is a source for impacts in soil, ground water, and soil vapor.	Water and Wastewater Systems	Food and Agriculture			
ASTM E2541	GUIDE FOR STAKEHOLDER-FOCUSED, CONSENSUS-BASED DISASTER RESTORATION PROCESS FOR CONTAMINATED ASSETS	1/8/2010	CONTAINED IN VOL. 15.08, 2012 Defines a framework (that is, strategy) for involving the public in a stakeholder-focused, consensus-based event restoration process, for those situations where such involvement is essential to move a stalled (due to stakeholder issues) restoration process forward.	Chemical	Healthcare and Public Health			

ASTM E2541	Standard Guide for Stakeholder-Focused, Consensus-Based Disaster Restoration Process for Contaminated Assets	2010	To ensure a publicly acceptable and timely restoration of an asset contaminated as a result of a natural or man-made disaster, including a terrorist event, it is essential to have a pre-planned strategy developed and tailored at the community level and facilitated by the government which advocates the support and involvement of the affected community during such a crisis period. This pre-planned strategy for restoration will need to be seamlessly incorporated into the overall emergency management process within the community. This guide presents a framework (that is, strategy) for involving the public in a stakeholder-focused, consensus-based event restoration process,	Chemical	Societal			
ASTM E2568	New PB Exterior Insulation and Finish Systems	2009						
ASTM E2601	Standard Practice for Radiological Emergency Response	2008		Emergency Services				
ASTM E2601	Practice for Radiological Emergency Response	1/8/2008	CONTAINED IN VOL. 15.08, 2013 Gives decision-making considerations for response to incidents that involve radioactive materials.	Emergency Services	Nuclear Reactors, Materials, and Waste			
ASTM E2601-08	Standard Practice for Radiological Emergency Response			Emergency Services	Nuclear Reactors, Materials, and Waste			

ASTM E2616	Guide for Remedy Selection Integrating Risk-Based Corrective Action and Non-Risk Considerations	1/10/2009	CONTAINED IN VOL. 11.05, 2012 Defines the selection of appropriate remedial actions at sites where a release of chemicals (for example, vapor-phase, dissolved-phase, or non-aqueous phase liquids (NAPL)) into the environment has occurred.	Chemical				
ASTM E2640	GUIDE FOR RESOURCE MANAGEMENT IN EMERGENCY MANAGEMENT AND HOMELAND SECURITY	1/10/2010	CONTAINED IN VOL. 15.08, 2012 Defines a standard frame of reference for managing resources in conjunction with an incident.	Emergency Services				
ASTM E2640-10	Standard Guide for Resource Management in Emergency Management and Homeland Security			Emergency Services				
ASTM E2668	Standard Guide for Emergency Operations Center (EOC) Development	2010		Emergency Services				
ASTM E2668	Standard Guide for Emergency Operations Center (EOC) Development	2010	This guide provides general guidelines for the development of an emergency operations center (EOC).	Emergency Services				
ASTM E2682	GUIDE FOR DEVELOPING A DISASTER RECOVERY PLAN FOR MEDICAL TRANSCRIPTION DEPARTMENTS AND BUSINESSES	1/5/2009	CONTAINED IN VOL. 14.01, 2009 Covers multiple medical transcription settings in which healthcare documents are generated and stored: medical transcription departments, home offices, and medical transcription service organizations (MTSOs).	Healthcare and Public Health	Emergency Services			

ASTM E2728	GUIDE FOR WATER STEWARDSHIP IN THE DESIGN, CONSTRUCTION, AND OPERATION OF BUILDINGS	1/3/2011	CONTAINED IN VOL. 04.12, 2012 Covers ideal sustainability and applied sustainability for water management, consistent with Guide E2432. Both ideal sustainability and applied sustainability should inform decisions regarding water management.	Water and Wastewater Systems	Commercial Facilities	Government Facilities	Residential Facilities	
ASTM E2731	Specification for Materials to Mitigate the Spread of Radioactive Contamination after a Radiological Dispersion Event	1/1/2010	CONTAINED IN VOL. 15.08, 2012 Defines a basis for identification of materials used to immobilize radioactive contamination, minimize exposure, and facilitate subsequent decontamination.	Nuclear Reactors, Materials, and Waste				
ASTM E2732	Practice for Responder Family Support Service	1/3/2011	CONTAINED IN VOL. 15.08, 2012 Defines a standard approach for designated personnel in public, private and not-for-profit organizations that provide recreational, cultural, educational and related services to the public to respond in a support role providing assistance, and as needed to the local family of a responder on assignment in an emergency situation.	Emergency Services				
ASTM E2770	Guide for Operational Guidelines for Initial Response to a Suspected Biothreat Agent	1/11/2010	CONTAINED IN VOL. 15.08, 2013 Specifies considerations for decision-makers when responding to incidents that may involve biothreats.	Emergency Services				

ASTM E2831/E2831M	Guide for Deployment of Blast Resistant Trash Receptacles in Crowded Places	1/8/2011	CONTAINED IN VOL. 15.08, 2012 Classifies the key factors that should be considered prior to the deployment of blast resistant trash receptacles (BRTRs) in crowded places.	Emergency Services	Government Facilities	Commercial Facilities		
ASTM E2842	Standard Guide for Credentialing for Access to an Incident or Event Site	2014						
ASTM E2915	Standard Guide for Emergency Operations Center (EOC) Management	2013	This guide provides general guidelines for the management of an emergency operations center (EOC) prior to, during, and after activation for emergency or disaster support.	Emergency Services				
ASTM E2951	Standard Guide for Community Emergency Preparedness for Persons with Disabilities	2013	This guide provides recommendations for the local or regional AHJ to use in dealing with persons with disabilities who reside within their area of responsibility or jurisdiction.	Emergency Services				
ASTM E736	TEST METHOD FOR COHESION/ADHESION OF SPRAYED FIRE-RESISTIVE MATERIALS APPLIED TO STRUCTURAL MEMBERS	2000(R2011)	CONTAINED IN VOL. 04.11, 2014 Defines a procedure for measuring the cohesion/adhesion or bond strength (tensile) perpendicular to the surface of sprayed fire-resistive material (SFRM) applied to rigid backing.	Commercial Facilities	Government Facilities	Residential Facilities		

ASTM F 1086	GUIDE FOR STRUCTURES AND RESPONSIBILITIES OF EMERGENCY MEDICAL SERVICES SYSTEMS ORGANIZATIONS	1994(R2008)	Provides optimum guidelines for the responsibilities and structures that will ease development, delivery, and assessment of Emergency Medical Services on regional, state and local levels.	Emergency Services	Healthcare and Public Health			
ASTM F 1149	PRACTICE FOR QUALIFICATIONS, RESPONSIBILITIES, AND AUTHORITY OF INDIVIDUALS AND INSTITUTIONS PROVIDING MEDICAL DIRECTION OF EMERGENCY MEDICAL SERVICES	1993(R2013)	CONTAINED IN VOL. 13.02, 2013 Defines the qualifications, responsibilities, and authority of individuals and institutions providing medical direction of emergency medical services.	Emergency Services	Healthcare and Public Health			
ASTM F 1220	GUIDE FOR EMERGENCY MEDICAL SERVICES SYSTEM (EMSS) TELECOMMUNICATIONS	1995(R2006)	CONTAINED IN VOL. 13.02, 2012 Covers telecommunications practices and performance standards required to support all of the functions of community EMSS on a statewide basis.	Emergency Services	Healthcare and Public Health	communications		
ASTM F 1268	GUIDE FOR ESTABLISHING AND OPERATING A PUBLIC INFORMATION, EDUCATION, AND RELATIONS PROGRAM FOR EMERGENCY MEDICAL SERVICE SYSTEMS	1990(R2012)	CONTAINED IN VOL. 13.02, 2012 Gives national voluntary standards and recommendations to effectively provide emergency medical service system information and education to the public.	Emergency Services	Healthcare and Public Health	communications		
ASTM F 1287	GUIDE FOR SCOPE OF PERFORMANCE OF FIRST RESPONDERS WHO PROVIDE EMERGENCY MEDICAL CARE	1990(R2012)	CONTAINED IN VOL. 13.02, 2012 Covers minimum requirements for the scope of performance of first responders who may be responsible for the initial care of sick and injured persons of all ages in the prehospital environment.	Emergency Services	Healthcare and Public Health			

ASTM F 1288	GUIDE FOR PLANNING FOR AND RESPONSE TO A MULTIPLE CASUALTY INCIDENT	1990(R2009)	CONTAINED IN VOL. 13.02, 2012 Defines the planning, needs assessment, training, integration, coordination, mutual aid, implementation, provision of resources, and evaluation of the response of a local emergency medical service (EMS) organization or agency to a multiple patient producing situation that may or may not involve property loss.	Emergency Services	Healthcare and Public Health			
ASTM F 1339	GUIDE FOR ORGANIZATION AND OPERATION OF EMERGENCY MEDICAL SERVICES SYSTEMS	1992(R2008)	CONTAINED IN VOL. 13.02, 2013 Describes the organization and operation of Emergency Medical Services Systems (EMSS) at the state, regional and local levels.	Emergency Services	Healthcare and Public Health			
ASTM F 1422	GUIDE FOR USING THE INCIDENT COMMAND SYSTEM FRAMEWORK IN MANAGING SEARCH AND RESCUE OPERATIONS	1/12/2008	CONTAINED IN VOL. 13.02, 2012 Describes the use of the Incident Command System (ICS) as the management framework for the civilian search and rescue (SAR) operations.	Emergency Services				
ASTM F 1525/F1525M	GUIDE FOR USE OF MEMBRANE TECHNOLOGY IN MITIGATING HAZARDOUS CHEMICAL SPILLS	1/10/2009	CONTAINED IN VOL. 11.05, 2012 Defines considerations for the use of membrane technology in the mitigation of dilute concentrations of spilled chemicals into ground and surface waters.	Chemical	Emergency Services			

ASTM F 1616	GUIDE FOR SCOPE OF PERFORMANCE OF FIRST RESPONDERS WHO PRACTICE IN THE WILDERNESS OR DELAYED OR PROLONGED TRANSPORT SETTINGS	1995(R2009)	CONTAINED IN VOL. 13.02, 2012 Defines minimum performance requirements for first responders who may initially provide care for sick or injured persons in the specialized pre-hospital situations of the wilderness or delayed or prolonged transport settings, including catastrophic disasters.	Emergency Services	Healthcare and Public Health			
ASTM F 1637	PRACTICE FOR SAFE WALKING SURFACES	1/8/2013	CONTAINED IN VOL. 15.07, 2013 Specifies design and construction guidelines and minimum maintenance criteria for new and existing buildings and structures.	Commercial Facilities	Government Facilities	Residential Facilities		
ASTM F 1653	GUIDE FOR SCOPE OF PERFORMANCE OF TRIAGE IN A PREHOSPITAL ENVIRONMENT	1995(R2012)	CONTAINED IN VOL. 13.02, 2012 Provides minimum requirements for the scope of performance for individuals who perform triage at an emergency medical incident involving multiple casualties in a pre-hospital environment.	Emergency Services	Healthcare and Public Health			
ASTM F 3048	GUIDE FOR SWIFTWATER/FLOOD SEARCH AND RESCUE OPERATIONS	1/2/2014	CONTAINED IN VOL. 13.02, 2014 Defines a framework within which swiftwater/flood Search and Rescue (SAR) operations shall be conducted as part of the National Incident Management System (NIMS)/Incident Command System (ICS).	Water and Wastewater Systems				

ASTM F1177	TERMINOLOGY RELATING TO EMERGENCY MEDICAL SERVICES	28/10/2002	CONTAINED IN VOL. 13.02, 2012 Includes definitions of terms which apply to all F30 standards, but which are more precise than common usage.	Emergency Services	Healthcare and Public Health			
ASTM F1221	Guide for Interagency Information Exchange	1989(R2006)	CONTAINED IN VOL. 13.02, 2012 Covers the planning, operations, and evaluation phases of interagency communications as part of a comprehensive EMS system.	Emergency Services	Communications			
ASTM F1258	Practice for Emergency Medical Dispatch	1995(R2006)	CONTAINED IN VOL. 13.02, 2012 Covers the definition of responsibilities, knowledge, practices, and organizational support required to implement, perform, and manage effectively the emergency medical dispatch function.	Emergency Services	Communications			
ASTM F1288	GUIDE FOR PLANNING FOR AND RESPONSE TO A MULTIPLE CASUALTY INCIDENT	1990 R 2009	CONTAINED IN VOL. 13.02, 2012 Defines the planning, needs assessment, training, integration, coordination, mutual aid, implementation, provision of resources, and evaluation of the response of a local emergency medical service (EMS) organization or agency to a multiple patient producing situation that may or may not involve property loss.	Emergency Services	Healthcare and Public Health			

ASTM F1339	GUIDE FOR ORGANIZATION AND OPERATION OF EMERGENCY MEDICAL SERVICES SYSTEMS	1/12/1998	CONTAINED IN VOL. 13.02, 2013 Describes the organization and operation of Emergency Medical Services Systems (EMSS) at the state, regional and local levels.	Emergency Services	Healthcare and Public Health			
ASTM F1517	GUIDE FOR SCOPE OF PERFORMANCE OF EMERGENCY MEDICAL SERVICES AMBULANCE OPERATIONS	1/7/1994	CONTAINED IN VOL. 13.02, 2012 Covers minimum standards for the performance of emergency medical services (EMS) ambulance operators, including: operator qualifications, pre-run operation, and post-run aspects.	Emergency Services	Healthcare and Public Health			
ASTM F1560	Practice for Emergency Medical Dispatch Management	2000(R2006)	CONTAINED IN VOL. 13.02, 2012 Provides information on the function of the emergency medical dispatch (EMD) including the prompt and accurate processing of calls for emergency medical assistance.	Emergency Services	Healthcare and Public Health			
ASTM F1629	Guide for Establishing Operating Emergency Medical Services and Management Information Systems, or Both	1995(R2007)	CONTAINED IN VOL. 13.02, 2013 Defines a standard guideline for planning, development and maintenance guideline of an EMS-MIS framework, including linkage among pre-hospital, hospital and other public safety or government agencies.	Emergency Services	Healthcare and Public Health			

ASTM F1655	Guide for Training First Responders Who Practice in Wilderness, Delayed, or Prolonged Transport Settings	1995(R2013)	CONTAINED IN VOL. 13.02, 2013 Provides minimum training standards for first responders who care for sick or injured persons in the specialized pre-hospital situations of the wilderness, delayed, or prolonged transport settings, including catastrophic disasters.	Emergency Services	Healthcare and Public Health			
ASTM F1764	Guide for Selection of Hardline Communication Systems for Confined-Space Rescue	1997(R2012)	CONTAINED IN VOL. 13.02, 2012 States recommended criteria for selecting hardwire communication systems to be used in permit-required confined-space rescue operations.	Communications	Transportation Systems			
ASTM F1767	Guide for Forms Used for Search and Rescue	1998(R2005)	CONTAINED IN VOL. 13.02, 2012 Provides the examples of forms used in the SAR community. This guide is to make the user aware of the many different types of forms used but not intended to recommend one form over another.	Emergency Services				
ASTM F1768	Guide for Using Whistle Signals During Rope Rescue Operations	1997(R2014)	CONTAINED IN VOL. 13.02, 2014 Defines the methodology for the use of whistles as a means of communication during rope rescue operations.	Emergency Services				

ASTM F2076	Practice for Communicating an EMS Patient Report to Receiving Medical Facilities	2001(R2006)	CONTAINED IN VOL. 13.02, 2012 Establishes the EMS standard for communications entailing a patient radio (phone) report to a receiving medical facility.	Emergency Services	Healthcare and Public Health	communications		
ASTM F2247	Test Method for Metal Doors Used in Blast Resistant Applications (Equivalent Static Load Method)	1/4/2011	CONTAINED IN VOL. 15.08, 2012 Defines the structural performance of metal doors and frames and their restraining hardware (such as latches and hinges) used as a blast resistant barrier.	Commercial Facilities	Government Facilities	Residential Facilities		
ASTM STP 1503	COMMON GROUND, CONSENSUS BUILDING AND CONTINUAL IMPROVEMENT: INTERNATIONAL STANDARDS AND SUSTAINABLE BUILDING		Defines current and developing sustainable building and product standards for manufacturers, designers, retailers, the general public, and government regulators.	Commercial Facilities	Government Facilities	Residential Facilities		

ASTM WK20536	New Guide for Emergency Preparedness of Private-Sector-Owned Public Assembly Venues		This guide is to be used for undertaking emergency preparedness of public assembly venues owned and operated by the private sector. Venue preparedness should be designed around specific potential or anticipated emergency situations. 1.2 This guide does not purport to address all of the potential elements necessary to prepare for all emergency situations that could occur on the premises of such a public assembly venue. It is the responsibility of the user of this guide to establish applicable protocols, procedures, systems, and other means to facilitate the health, safety, and wellbeing of attendees, employees, guests, participants, vendors, and others in the operation of such a venue. The user	Emergency Services	Commercial Facilities			
ASTM WK20536	New Guide for Emergency Preparedness of Private-Sector-Owned Public Assembly Venues			Emergency Services	Commercial Facilities	Societal		

ASTM WK24630

New Guide for Credentialing
for Access to a Disaster Scene

The objective is the expansion and modification of the FIPS-201 criteria to define a single national credentialing standard. The focus will be on the development of guidelines for credentialing for access. The Standard will address the fundamental terms, criteria, references, definitions and process model for implementation of credentialing or a credentialing program. The scope of this standard is limited to authentication of an individuals identity and/or attributes. This will also provides guidelines and templates and will be in compliance with all FIPS-201 requirements but also enhances and modifies the criteria to include access to a disaster scene by State, local, Tribal, private and NGO

Emergency Services

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ASTM WK28099	New Guide for Deployable Affiliated Volunteer (DAV) Program Development		This guide provides basic guidelines for development of a deployable affiliated volunteer (DAV) program by identifying the resource type and possible participants, general management structure and issues, and basics for development of a related program database. 1.2 The DAV is an individual resource, commonly an adult unpaid volunteer, who is a local asset coordinated statewide for mutual aid deployment (see Resource Typing in Appendix X1). 1.2.1 An example for deployment of basic-level DAV personnel is to provide support in logistics or a clerical position. 1.2.2 An example of deployment of a higher level of DAV is to provide supervision or management of DAV personnel or other resources. 1.3 The DAV	Emergency Services				
ASTM WK28099	New Guide for Deployable Affiliated Volunteer (DAV) Program Development			Emergency Services				
ASTM WK36535	New Specification for Metal Canopy Systems			Commercial Facilities	Government Facilities	Residential Facilities		
ASTM WK36550	New Specification for Applying Cable Barrier Systems to Provide Physical Protection along the Passive Perimeter around Assets Requiring High Security against Vehicular Threats			Commercial Facilities	Government Facilities			

ASTM WK37194	New Practice for Biological Emergency Response		<p>This standard practice will provide decision-making considerations for response to incidents that involve biological agents/materials. It will provide information and guidance for what to include in response planning, and what activities to conduct during a response. The scope of this practice does not expressly address emergency response to contamination of food or water supplies. This practice applies to those emergency response agencies that have a role in the response to a biological incident. It should be used in emergency services response such as law enforcement, fire department, and emergency medical response actions. This practice assumes that implementation begins with the recognition of a</p>	Emergency Services				
ASTM WK37194	New Practice for Biological Emergency Response			Emergency Services				

ASTM WK40632	New Guide for Emergency Preparedness for Caregivers of Persons With Disabilities and Functional Needs		This standard guide sets forth an approach for private and/or public sector leadership to adopt in organizing and training caregivers of persons with disabilities and those with functional needs for emergencies and disasters. It contemplates several successive efforts to raise public awareness of potential emergencies, and to provide initial training to selected (train the future trainers) caregivers in emergency preparedness that will compliment efforts of the local EMA/OEM, first responders, CERT Members and FEMA Corps members.	Emergency Services	Healthcare and Public Health			
ASTM WK40632	New Guide for Emergency Preparedness for Caregivers of Persons With Disabilities and Functional Needs			Emergency Services				
ASTM WK41393	New Guide for Identifying Blast Mitigating Design Criteria for the Protection of Building Exteriors Against Blast Loading due to Terrorist Attacks			Commercial Facilities	Government Facilities	Residential Facilities		
ASTM WK46846	New Guide for A Standardized Emergency Response Equipment Training Program Format			Emergency Services				
ASTM WK46864	New Guide for Standard guide for Personal Preparedness for Persons with Disabilities			Emergency Services				

ASTM WK8908	New Guide for School Preparedness and All Hazard Response	draft	The guide covers concepts, principles and best practices for all-hazards integrated emergency management programs in preparedness, prevention, mitigation, response, and recovery for schools and school districts in preparation and response to a natural or man-caused incident. 1.2 The guide addresses the essential elements of the scope, planning, structure, application and integration of federal, state, local volunteer and non-governmental organizations and resources necessary to facilitate interoperability and seamless participation by response agencies both inside and outside the school/district. 1.3 The guide provides a common operating terminology for the school environment in	Emergency Services				
ASTM WK8908	New Guide for School Preparedness and All Hazard Response			Emergency Services	Government Facilities	Commercial Facilities		
ÖNORM B 3801	WOOD PROTECTION IN BUILDING AND CONSTRUCTION - TERMS, DEFINITIONS AND BASIC PRINCIPLES	1/1/2009	Diese ÖNORM beschreibt Grundlagen und Definitionen für den Holzschutz. Diese ÖNORM ist gemeinsam mit ÖNORM B 3802-1, ÖNORM B 3802-2 und ÖNORM B 3802-3 anzuwenden.	Commercial Facilities	Government Facilities	Residential Facilities		
ÖNORM B 3802-1	PROTECTION OF TIMBER USED IN BUILDINGS - CONSTRUCTIONAL PROTECTION OF TIMBER	1/12/1995		Commercial Facilities	Government Facilities	Residential Facilities		

ÖNORM B 3802-2	PROTECTION OF TIMBER USED IN BUILDINGS - CHEMICAL PROTECTION OF TIMBER	1/4/1998		Commercial Facilities	Government Facilities	Residential Facilities		
ÖNORM B 3802-3	PROTECTION OF TIMBER USED IN BUILDINGS - PART 3: CONTROL MEASURES AGAINST FUNGAL DECAY AND INSECT ATTACK	1/10/2003	Diese ÖNORM ist zur Bekämpfung eines vorhandenen Befalls durch holzerstörende Pilze oder Insekten anzuwenden.	Commercial Facilities	Government Facilities	Residential Facilities		
ÖNORM B 3804	PROTECTION OF TIMBER USED IN BUILDINGS - WOODEN BUILDINGS CONSTRUCTED BY PREFABRICATED BUILDING COMPONENTS - CONSTRUCTIVE AND CHEMICAL TIMBER PRESERVATION MEASURES	1/3/2002		Commercial Facilities	Government Facilities	Residential Facilities		
ONORM EN 1018	Chemicals used for treatment of water intended for human consumption - Calcium carbonate (consolidated version)	1/7/2013	Diese Europäische Norm gilt für Calciumcarbonat zur Aufbereitung von Wasser für den menschlichen Gebrauch. Die Norm beschreibt die Eigenschaften von Calciumcarbonat und legt die Anforderungen sowie die entsprechenden Prüfverfahren für Calciumcarbonat fest. Sie gibt Informationen für seine Anwendung in der Wasseraufbereitung.	Water and Wastewater Systems				

ONORM EN 12518	Chemicals used for treatment of water intended for human consumption - High-calcium lime	1/3/2008	Applicable to high-calcium lime used for treatment of water intended for human consumption. Characteristics of high-calcium lime are described and requirements for high-calcium lime are defined. Information is given on its use in water treatment.	Water and Wastewater Systems				<p>Foreword</p> <p>Introduction</p> <p>1 Scope</p> <p>2 Normative references</p> <p>3 Description</p> <p>3.1 Identification</p> <p>3.2 Commercial forms</p> <p>3.3 Physical properties</p> <p>3.4 Chemical properties</p> <p>4 Purity criteria</p> <p>4.1 General</p> <p>4.2 Composition of commercial product</p> <p>4.3 Impurities</p> <p>4.4 Water insoluble matter</p> <p>4.5 Toxic substances</p> <p>4.6 Free water</p> <p>5 Test methods</p> <p>5.1 Sampling</p> <p>5.2 Analyses</p> <p>6 Labelling - Transportation - Storage</p> <p>6.1 Means of delivery</p> <p>6.2 Risk and safety labelling according to the EU directives</p> <p>6.3 Transportation regulations and</p>
ONORM EN 13577	Chemical attack on concrete - Determination of aggressive carbon dioxide content in water	1/9/2007	Defines a reference method for the determination of carbon dioxide present in water and which has a capacity to dissolve in lime from concrete.					<p>Foreword</p> <p>1 Scope</p> <p>2 Normative references</p> <p>3 Terms and definitions</p> <p>4 Principle</p> <p>5 Apparatus</p> <p>6 Procedure</p> <p>7 Expression of results</p> <p>8 Test report</p> <p>9 Precision</p> <p>Annex A (informative) Example of a test report - Determination of aggressive CO₂ content</p> <p>Bibliography</p>

ONORM EN 1407	Chemicals used for treatment of water intended for human consumption - Anionic and non-ionic polyacrylamides	1/4/2008	Applies to anionic and non-ionic polyacrylamides for treating water intended for consumption by humans. Covers the characteristics of anionic and non-ionic polyacrylamides and defines requirements and corresponding test procedures for anionic and non-ionic polyacrylamides.	Water and Wastewater Systems				<p>Foreword</p> <p>Introduction</p> <p>1 Scope</p> <p>2 Normative references</p> <p>3 Description</p> <p>3.1 Identification</p> <p>3.2 Commercial form</p> <p>3.3 Physical properties</p> <p>3.4 Chemical properties</p> <p>4 Purity criteria</p> <p>4.1 Composition of commercial product</p> <p>4.2 Impurities and main by-products</p> <p>4.3 Toxic substances</p> <p>5 Test methods</p> <p>5.1 Sampling</p> <p>5.2 Analyses</p> <p>6 Labelling - Transportation - Storage</p> <p>6.1 Means of delivery</p> <p>6.2 Risk of safety labelling in accordance with the EU Directives</p> <p>6.3 Transportation regulations and labelling</p> <p>6.4 Marking</p> <p>6.5 Storage</p>
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ONORM EN 1408	Chemicals used for treatment of water intended for human consumption - Poly (diallyldimethylammonium chloride)	1/4/2008	Applies to poly(diallyldimethylammonium chloride) for treating water for consumption by humans. Covers characteristics and defines requirements and corresponding test procedures.	Water and Wastewater Systems				<p>Foreword</p> <p>Introduction</p> <p>1 Scope</p> <p>2 Normative references</p> <p>3 Description</p> <p>3.1 Identification</p> <p>3.2 Commercial form</p> <p>3.3 Physical properties</p> <p>3.4 Chemical properties</p> <p>4 Purity criteria</p> <p>4.1 Composition of commercial product</p> <p>4.2 Impurities and main by-products</p> <p>4.3 Toxic substances</p> <p>5 Test methods</p> <p>5.1 Sampling</p> <p>5.2 Analyses</p> <p>6 Labelling - Transportation - Storage</p> <p>6.1 Means of delivery</p> <p>6.2 Risk and safety labelling in accordance with the EU Directives</p> <p>6.3 Transportation regulations and labelling</p> <p>6.4 Marking</p> <p>6.5 Storage</p>
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ONORM EN 1409	Chemicals used for water treatment intended for human consumption - Polyamines	1/4/2008	Applies to polyamines for treating water for human consumption. Covers characteristics and defines the requirements and corresponding test procedures for polyamines.	Water and Wastewater Systems				<p>Foreword</p> <p>Introduction</p> <p>1 Scope</p> <p>2 Normative references</p> <p>3 Description</p> <p>3.1 Identification</p> <p>3.2 Commercial form</p> <p>3.3 Physical properties</p> <p>3.4 Chemical properties</p> <p>4 Purity criteria</p> <p>4.1 Composition of commercial product</p> <p>4.2 Impurities and main by-products</p> <p>4.3 Toxic substances</p> <p>5 Test methods</p> <p>5.1 Sampling</p> <p>5.2 Analyses</p> <p>6 Labelling - Transportation - Storage</p> <p>6.1 Means of delivery</p> <p>6.2 Risk and safety labelling in accordance with the with the EU Directives</p> <p>6.3 Transportation regulations and labelling</p> <p>6.4 Marking</p> <p>6.5 Storage</p>
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ONORM EN 1410	Chemicals used for treatment of water intended for human consumption - Cationic polyacrylamides	1/4/2008	Applies to cationic polyacrylamides for treating water for consumption by humans. Covers the characteristics of cationic polyacrylamides and defines requirements and corresponding test procedures for cationic polyacrylamides.	Water and Wastewater Systems				<p>Foreword</p> <p>Introduction</p> <p>1 Scope</p> <p>2 Normative references</p> <p>3 Description</p> <p>3.1 Identification</p> <p>3.2 Commercial form</p> <p>3.3 Physical properties</p> <p>3.4 Chemical properties</p> <p>4 Purity criteria</p> <p>4.1 Composition of commercial product</p> <p>4.2 Impurities and main by-products</p> <p>4.3 Toxic substances</p> <p>5 Test methods</p> <p>5.1 Sampling</p> <p>5.2 Analyses</p> <p>6 Labelling - Transportation - Storage</p> <p>6.1 Means of delivery</p> <p>6.2 Risk and safety labelling in accordance with the EU Directives</p> <p>6.3 Transportation regulations and labelling</p> <p>6.4 Marking</p> <p>6.5 Storage</p>
ONORM EN 15482	Chemicals used for treatment of water intended for human consumption - Sodium permanganate	15/5/2013	Diese Europäische Norm gilt für Natriumpermanganat zur Aufbereitung von Wasser für den menschlichen Gebrauch. Die Norm beschreibt die Eigenschaften von Natriumpermanganat und legt die Anforderungen sowie die entsprechenden Prüfverfahren für Natriumpermanganat fest. Sie gibt Informationen für dessen Anwendung in der Wasseraufbereitung.	Water and Wastewater Systems				

ONORM EN 1717	Protection against pollution of potable water in water installations and general requirements of devices to prevent pollution by backflow	2008	This standard defines the means to be used to prevent the pollution of potable water inside premises and the general requirements of protection devices to avoid pollution by backflow. It also outlines the minimum requirements for product standards of protection units.	Water and Wastewater Systems				<p>Contents</p> <p>Foreword</p> <p>Introduction</p> <p>1. Scope</p> <p>2. Normative references</p> <p>3. Terms and definitions</p> <p>4. Pollution of potable water: general observations</p> <p>4.1 Backflow of used water</p> <p>4.2 Connection</p> <p>4.3 External influences</p> <p>4.4 Materials</p> <p>4.5 Stagnation</p> <p>4.6 Harm caused by inadequate or improper maintenance</p> <p>5. Analysis method of the risks at the point of use and choice of protection</p> <p>5.1 General remarks</p> <p>5.2 Determination of fluid categories which are or could be in contact with potable water</p> <p>5.3 Determination of the installation characteristics</p> <p>5.4 Separation by single or double walls</p>
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ONORM EN 900	Chemicals used for treatment of water intended for human consumption - Calcium hypochlorite	1/1/2008	Applies to calcium hypochlorite for use in the treatment of water meant for human consumption. Covers the characteristics of calcium hypochlorite and defines the requirements and the corresponding test methods for calcium hypochlorite. Also gives information on its use in water treatment.	Water and Wastewater Systems				<p>Foreword</p> <p>1 Scope</p> <p>2 Normative references</p> <p>3 Description</p> <p>3.1 Identification</p> <p>3.2 Commercial form</p> <p>3.3 Physical properties</p> <p>3.4 Chemical properties</p> <p>4 Purity criteria</p> <p>4.1 Composition of commercial product</p> <p>4.2 Impurities and main by-products</p> <p>4.3 Toxic substances</p> <p>5 Test methods</p> <p>5.1 Sampling</p> <p>5.2 Analysis</p> <p>6 Labelling - Transportation - Storage</p> <p>6.1 Means of delivery</p> <p>6.2 Risk and safety labelling according to the EU Directives</p> <p>6.3 Transportation regulations and labelling</p> <p>6.4 Marking</p> <p>6.5 Storage</p> <p>Annex A (informative) General</p>
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ÖNORM EN ISO 20988	Air quality - Guidelines for estimating measurement uncertainty (ISO 20988:2007)	1/9/2007	Provides comprehensive guidance and specific statistical procedures for uncertainty estimation in air quality measurements including measurements of ambient air, stationary source emissions, indoor air, workplace atmospheres and meteorology.	Commercial Facilities	Government Facilities	Residential Facilities		Foreword Introduction 1 Scope 2 Normative references 3 Terms and definitions 4 Symbols and abbreviated terms 5 Basic concepts 5.1 Outline 5.2 Measurement uncertainty 5.3 Correction for systematic effects 5.4 Provision of input data 6 Problem specification 6.1 Objectives 6.2 Measurement 6.3 Uncertainty parameters 6.4 Input data 6.4.1 General 6.4.2 Assessment of representativeness 6.5 Effects not described by series of observations 7 Statistical analysis 7.1 Objectives 7.2 Indirect approach 7.3 Direct approach 7.4 Statistical validity 8 Estimation of variances and
ÖNORM ONR CEN/TR 15601	HYGROTHERMAL PERFORMANCE OF BUILDINGS - RESISTANCE TO WIND-DRIVEN RAIN OF ROOF COVERINGS WITH DISCONTINUOUSLY LAID SMALL ELEMENTS - TEST METHODS (CEN/TR 15601:2012)	15/04/2012		Commercial Facilities	Government Facilities	Residential Facilities		
ÖNORM S 2304	INTEGRATED DISASTER MANAGEMENT - TERMS AND DEFINITIONS	15/07/2011		Emergency Services				
ÖNORM S 6001	SHELTERS - TERMS AND DEFINITIONS	1/9/1994		Emergency Services	Commercial Facilities	Government Facilities	Residential Facilities	
ÖNORM S 6020	SHELTERS - DEFENCE VENTILATION AGGREGATES - SVA - MARKING OF CONFORMITY	1/3/1999		Emergency Services	Commercial Facilities	Government Facilities	Residential Facilities	

ÖNORM S 6021	SHELTERS - POP VALVES (UV) - REQUIREMENTS, TESTS, MARKING OF CONFORMITY	1/1/1997		Emergency Services	Commercial Facilities	Government Facilities	Residential Facilities	
ÖNORM S 6022	SHELTERS - ANTI-EXPLOSION VALVES (ESV) - REQUIREMENTS, TESTS, MARKING OF CONFORMITY	1/1/1997		Emergency Services	Commercial Facilities	Government Facilities	Residential Facilities	
ÖNORM S 6023	SHELTERS - ANTI-EXPLOSION-POP VALVES (UV-ESV) - REQUIREMENTS, TESTS, MARKING OF CONFORMITY	1/1/1997		Emergency Services	Commercial Facilities	Government Facilities	Residential Facilities	
ÖNORM S 6024	SHELTERS - FILTER SAND FOR AIR FILTERS	1/1/2007	Für die Sicherstellung der Schutzbelüftung von Schutzräumen sind gemäss den Technischen Richtlinien für Schutzraumbauten Sandfilter vorzusehen, durch welche die verunreinigte Aussenluft von schädlichen Bestandteilen, wie radioaktivem Niederschlag, chemischen Schadstoffen u. dgl. gereinigt und im Fall der Erhitzung bei Bränden entsprechend abgekühlt wird. In Sammelschutzräumen können gegebenenfalls an Stelle der Sandfilter auch Raumfilter (ABC-Filter) mit vorgeschaltene Sandvorfiltern verwendet werden. Die Feinstreinigung der verunreinigten Aussenluft muss dann durch das dem Sandvorfilter nachgeschaltete Schwebstofffilter und	Emergency Services	Commercial Facilities	Government Facilities	Residential Facilities	
ÖNORM S 6050	SHELTER DOORS GT - MARKING OF CONFORMITY	1/9/1994		Emergency Services	Commercial Facilities	Government Facilities	Residential Facilities	

ÖNORM S 6051	SHELTER DOORS DT - MARKING OF CONFORMITY	1/9/1994		Emergency Services	Commercial Facilities	Government Facilities	Residential Facilities	
ÖNORM S 6052	SHELTERS - CIVIL DEFENCE SHELTER LIDS - NAKL - REQUIREMENTS, TESTING, MARKING OF CONFORMITY	1/3/1995		Emergency Services	Commercial Facilities	Government Facilities	Residential Facilities	
ÖNORM S 6053	SHELTERS - SLIDING SHUTTER WALLS - DESIGN, CALCULATION AND TESTING - MARKING OF CONFORMITY	1/6/1996		Emergency Services	Commercial Facilities	Government Facilities	Residential Facilities	
ÖNORM S 6070	OUTFIT OF SHELTERS - EQUIPMENT, APPLIANCES AND ARTICLES FOR USE	1/9/1994		Emergency Services	Commercial Facilities	Government Facilities	Residential Facilities	
ÖNORM S 6072	EQUIPMENT OF SHELTERS - SHOCK TEST AND CRITERIA OF SHOCK-TESTED PARTS FOR OUTFIT OF SHELTERS	1/11/1991		Emergency Services	Commercial Facilities	Government Facilities	Residential Facilities	
ÖNORM S 6075	EQUIPMENT OF SHELTERS - SHELTER BEDS - REQUIREMENTS, TESTS, MARKING OF CONFORMITY	1/9/1994		Emergency Services	Commercial Facilities	Government Facilities	Residential Facilities	
ÖNORM S 6076	EQUIPMENT OF SHELTERS - SHELTER CHAIRS - REQUIREMENTS, TESTS, MARKING OF CONFORMITY	1/9/1994		Emergency Services	Commercial Facilities	Government Facilities	Residential Facilities	
ÖNORM S 6077	EQUIPMENT OF SHELTERS - SHELTER TABLES - REQUIREMENTS, TESTS, MARKING OF CONFORMITY	1/9/1994		Emergency Services	Commercial Facilities	Government Facilities	Residential Facilities	
ÖNORM S 6078	EQUIPMENT OF SHELTERS - COMBINED BEDS AND SEATS - REQUIREMENTS, TESTS, MARKING OF CONFORMITY	1/2/1996		Emergency Services	Commercial Facilities	Government Facilities	Residential Facilities	
ÖNORM S 6090	SHELTER MARKING	1/9/1994		Emergency Services	Commercial Facilities	Government Facilities	Residential Facilities	

ÖNORM Z 1020	FIRST AID BOXES FOR WORKING PLACES AND FOR BUILDING SITES - REQUIREMENTS, CONTENT, TESTING	1/12/2006	Diese ÖNORM legt Anforderungen und Prüfungen für Verbandkästen in Arbeitsstätten und Baustellen in Bezug auf Ausführung, Werkstoff sowie deren Inhalt fest. Die Verbandkästen sollten eine fachgerechte Erste Hilfe am Unfallort ermöglichen. Die in den Verbandkästen enthaltenen Medizinprodukte müssen als solche dem Medizinproduktegesetz entsprechen. In dieser ÖNORM wurden folgende Änderungen eingearbeitet. Der Einmal-Beatmungsbehelf dient nur als Überwindung der Ekelbarriere. Auf der Verpackung muss zusätzlich stehen, dass die Anwendung keinen 100% igen Schutz vor Ansteckungsgefahr darstellt. Wenn vorauszusehen ist,	Commercial Facilities	Government Facilities	Residential Facilities		
AIAG OHS-6:2007	OHS-6: Pandemic Preparedness and Response Plan	2007		Emergency Services				
ANSI/ALI ALOIM	Standard for Automotive Lifts Safety Requirements for Operation, Inspection and Maintenance	2000	This standard covers the safety requirements for operation, inspection, and maintenance of installed automotive lifts	Transportation Systems				

10/30084678 DC	BS ISO 21929-1 - SUSTAINABILITY IN BUILDING CONSTRUCTION - SUSTAINABILITY INDICATORS - PART 1: FRAMEWORK FOR THE DEVELOPMENT OF INDICATORS AND A CORE SET OF INDICATORS FOR BUILDINGS	3/6/2010	BS ISO 21929-1	Commercial Facilities	Government Facilities	Residential Facilities		
10/30229726 DC	BS EN 15978 - SUSTAINABILITY OF CONSTRUCTION WORKS - ASSESSMENT OF ENVIRONMENTAL PERFORMANCE OF BUILDINGS - CALCULATION METHOD	16/06/2010	BS EN 15978	Commercial Facilities	Government Facilities	Residential Facilities		
11/30235901 DC	BS ISO 21929-2 - SUSTAINABILITY IN BUILDINGS AND CIVIL ENGINEERING WORKS - SUSTAINABILITY INDICATORS - PART 2: FRAMEWORK FOR THE DEVELOPMENT OF INDICATORS FOR CIVIL ENGINEERING WORKS	27/10/2011	BS ISO 21929-2.	Commercial Facilities	Government Facilities	Residential Facilities		Foreword Introduction 1 Scope 2 Normative references 3 Terms and definitions 4 General rules for sustainability indicators development and its framework 5 Core Indicators 6 Development of a system of sustainability indicators Bibliography

13/30263194 DC

BS EN 16623 - PAINTS AND
VARNISHES - REACTIVE
COATINGS FOR FIRE
PROTECTION OF METALLIC
SUBSTRATES - DEFINITIONS,
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27/06/2013

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(normative) - Insulating Efficiency -
Test Procedure Annex D
(normative) - Determination of
identification characteristics
Annex E (normative) - Factory
production control Annex F
(normative) - Alternative raw
materials, formulation and
process changes Annex G
(normative) - Audit testing Annex H
(normative) - Levels of fire testing
Annex I (informative) - Guidance for
manufacture, storage,
application, inspection and repair

13/30265379 DC	BS EN 16627 - SUSTAINABILITY OF CONSTRUCTION WORKS - ASSESSMENT OF ECONOMIC PERFORMANCE OF BUILDINGS - CALCULATION METHODS	26/06/2013	BS EN 16627.	Commercial Facilities	Government Facilities	Residential Facilities		Foreword Introduction 1 Scope 2 Normative references 3 Terms and definitions 4 Abbreviations 5 The process for setting up the calculations required for the assessment 6 Purpose of the assessment 7 Specification of the object of assessment 8 Scenarios for defining the building life cycle 9 Quantification of costs related to the building over its life cycle 10 Selection of economic data for economic assessment 11 Calculation of the economic indicators 12 Reporting of the assessment of results 13 Verification of results Annex A (informative) - Building description Annex B (informative) - Exported energy - Case studies Annex C (informative) - Additional indicators to assess the economic performance of buildings - Rules for assessment Bibliography
13/30268061 DC	BS ISO 22324 - SOCIETAL SECURITY - EMERGENCY MANAGEMENT - COLOUR-CODED ALERT	1/7/2013	BS ISO 22324.	Emergency Services				Foreword Introduction 1 Scope 2 Normative references 3 Terms and definitions 4 Guidance for use of colour codes 5 Colours and colour codes Annex A (informative) - Applications Annex B (informative) - Recommendations for safety colour selection Bibliography
BIP 2034	DISASTER AND EMERGENCY MANAGEMENT SYSTEMS	9/10/2008		Emergency Services	business continuity			
BIP 2142	THE ROUTE MAP TO BUSINESS CONTINUITY MANAGEMENT - MEETING THE REQUIREMENTS OF ISO 22301	31/5/2012		Business Continuity				

BIP 2149	MANAGING RISK AND RESILIENCE IN THE SUPPLY CHAIN	7/5/2008		Business Continuity				
BIP 2185	BUSINESS CONTINUITY COMMUNICATIONS - SUCCESSFUL INCIDENT COMMUNICATION PLANNING WITH ISO 22301	30/6/2012	Gives the principles of business continuity management, defines the requirement for a communication plan and is the starting point for this book.	Business Continuity				Acknowledgements Introduction 1. Types of incidents 2. Determining the contents of your plan 3. Press gang 4. Strategy layout 5. How the strategy migrates to a plan 6. Press conferences 7. Holding statements, press releases and templates 8. Coping with the press pack 9. Media monitoring 10. Social Media 11. Call-takers 12. Information, fact sheets and general know-how 13. Post-incident evaluation 14. Testing the plan 15. Communication plan checklist
BIP 2217	BUSINESS CONTINUITY MANAGEMENT FOR SMALL AND MEDIUM SIZED ENTERPRISES - HOW TO SURVIVE A MAJOR DISASTER OR FAILURE	27/01/2012		Business Continuity				

BS 25999-1(2006)	BUSINESS CONTINUITY MANAGEMENT - PART 1: CODE OF PRACTICE	30/11/2006	Shows the process, principles and terminology of business continuity management (BCM). The purpose of this Standard is to provide a basis for understanding, developing and implementing business continuity within an organization and to provide confidence in the organization's dealings with customers and other organizations. It also enables the organization to measure its BCM capability in a consistent and recognized manner.	Business Continuity				Foreword 1 Scope and applicability 2 Terms and definitions 3 Overview of business continuity management (BCM) 4 The business continuity management policy 5 BCM programme management 6 Understanding the organization 7 Determining business continuity strategy 8 Developing and implementing a BCM response 9 Exercising, maintaining and reviewing BCM arrangements 10 Embedding BCM in the organization's culture References List of Figures List of Tables
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BS 25999-2 (2007)

BUSINESS CONTINUITY
MANAGEMENT - PART 2:
SPECIFICATION

30/11/2007

Describes requirements for
planning, establishing,
implementing, operating,
monitoring, reviewing,
exercising, maintaining and
improving a documented
BCMS within the context of
managing an organization's
overall business risks.

Business Continuity

Foreword
Introduction
1 Scope
2 Terms and definitions
3 Planning the business continuity
management system
3.1 General
3.2 Establishing and managing the
BCMS
3.3 Embedding BCM in the
organization's culture
3.4 BCMS documentation and
records
4 Implementing and operating the
BCMS
4.1 Understanding the organization
4.2 Determining business continuity
strategy
4.3 Developing and implementing a
BCM response
4.4 Exercising, maintaining and
reviewing BCM arrangements
5 Monitoring and reviewing the
BCMS
5.1 Internal audit
5.2 Management review of the
BCMS

BS 476-13(1987)	FIRE TESTS ON BUILDING MATERIALS AND STRUCTURES - METHOD OF MEASURING THE IGNITABILITY OF PRODUCTS SUBJECTED TO THERMAL IRRADIANCE	29/01/1988	Describes a method for examining ignition characteristics of exposed surfaces of flat materials, composites or assemblies not exceeding 70 mm in thickness, when placed horizontally and subjected to specified levels of thermal irradiance. Covers references, definitions, principles of the test, suitability of a product for testing, specimen construction and preparation, test apparatus, test environment, additional equipment, setting-up procedure and requirements, calibration, test procedure, expression of results and test reports.	Commercial Facilities	Government Facilities	Residential Facilities	Emergency Services	National foreword Committees responsible Method 0 Introduction 1 Scope and field of application 2 References 3 Definitions 4 Principles of the test 5 Suitability of a product for testing 6 Specimen construction and preparation 7 Test apparatus 8 Test environment 9 Additional equipment 10 Setting up procedure and requirements 11 Calibration 12 Test procedure 13 Expression of results 14 Test report Annexes A Commentary on the text and guidance note for operators B Summary test report C Application and limitations of test D Variability in time to sustained surface ignition Table Coefficients of variation, repeatabilities and reproducibilities of time to sustained surface ignition Figures 1 Wrapping of the specimen 2 Ignitability test apparatus - general view 3a Specimen support framework - part sectional elevation along B-B 3b Specimen support framework - part
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BS 8492(2009)	TELECOMMUNICATIONS EQUIPMENT AND TELECOMMUNICATIONS CABLING - CODE OF PRACTICE FOR FIRE PERFORMANCE AND PROTECTION	30/11/2009	Provides recommendations for fire performance and fire protection of all types of telecommunications equipment and telecommunications cabling.	communications	Information Technology			Foreword Introduction 1 Scope 2 Normative references 3 Terms, definitions and abbreviations 3.1 Terms and definitions 3.2 Abbreviations 4 Balanced approach to fire threat mitigation 4.1 General 4.2 Compartmentation within premises 4.3 Management of fire threats associated with telecommunications cabling infrastructure 4.4 Additional measures based on installation type 5 Fire protection measures 5.1 Containment 5.2 Detection systems 5.3 Suppression systems 6 Fire threat mitigation by cabling component selection 6.1 General 6.2 Ignition and flame spread 6.3 Impact: Heat release 6.4 Impact: Fire effluent Annexes Annex A (informative) - Consideration of fire hazard Bibliography
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BS 9991(2011)	FIRE SAFETY IN THE DESIGN, MANAGEMENT AND USE OF RESIDENTIAL BUILDINGS - CODE OF PRACTICE	31/12/2011	Specifies recommendations and guidance on the design, management and use of building types, to achieve reasonable standards of fire safety for all people.	Residential facilities	Emergency Services			Foreword Section 1: General Introduction 1 Scope 2 Normative references 3 Terms and definitions 4 General recommendations and background Section 2: Designing means of escape 5 General 6 Means of escape and provision for rescue from houses 7 Means of escape from flats and maisonettes 8 Means of escape from sheltered, extra care and other special housing 9 Internal planning of flats Section 3: Stairs and final exits 10 Number and siting of common stair 11 Width of common stairs 12 Enclosure of common stairs 13 Basement stairs 14 Stairs within mixed-use developments 15 Access lobbies and corridors to protected stairways 16 External stairs 17 Discharge from common stairs and final exits Section 4: Access and facilities for fire-fighting 18 General recommendations for fire-fighting facilities 19 Fire-fighting access 20 Water supplies for fire and rescue service fire-fighting use 21
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BS 9999(2008)	CODE OF PRACTICE FOR FIRE SAFETY IN THE DESIGN, MANAGEMENT AND USE OF BUILDINGS	6/10/2008	Provides recommendations and guidance on the design, management and use of buildings to achieve reasonable standards of fire safety for all people in and around buildings.	Commercial Facilities	Government Facilities	Residential Facilities	Emergency Services	Foreword Section 1: General 0 Introduction 1 Scope 2 Normative references 3 Terms and definitions 4 General recommendations and background 4.1 Spread of fire and smoke 4.2 Variation of guidance 4.3 Property and business continuity protection 4.4 Environment 4.5 Additional recommendations for specific building types/occupancies 4.6 Inclusive design Section 2: Risk profiles and assessing risk 5 Assessing risk 6 Risk profiles 6.1 General 6.2 Occupancy characteristic 6.3 Fire growth rate 6.4 Creating the risk profile 6.5 Variation of risk profile Section 3: Ensuring effective fire protection 7 Ensuring effective fire protection 7.1 General 7.2 The design stage 7.3 The construction stage 7.4 The maintenance stage Section 4: Managing fire safety 8 Establishing management levels 8.1 Management of the fire safety strategy 8.2 Management levels
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BS EN 12159	BUILDERS HOISTS FOR PERSONS AND MATERIALS WITH VERTICALLY GUIDED CAGES	31/12/2012	Describes power operated temporarily installed builders hoists (referred to as "hoists" in this standard) intended for use by persons who are permitted to enter sites of engineering and construction, serving landing levels, having a cage: - designed for the transportation of persons or of persons and materials; - guided; - travelling vertically or along a path within 15 degrees max. of the vertical; supported or sustained by drum driven wire rope, rack and pinion, or an expanding linkage mechanism; & - where masts, when erected, may or may not require support from separate structures.	Commercial Facilities	Government Facilities	Residential Facilities		Foreword Introduction 1 Scope 2 Normative references 3 Terms and definitions 4 List of hazards 5 Safety requirements and/or measures 6 Verification 7 User information Annex A (normative) - European stormwind map Annex B (normative) - Electric safety devices Annex ZA (informative) - Relationship between this European Standard and the Essential Requirements of EU Directive 2006/42/EC Bibliography
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BS EN 15217	ENERGY PERFORMANCE OF BUILDINGS - METHODS FOR EXPRESSING ENERGY PERFORMANCE AND FOR ENERGY CERTIFICATION OF BUILDINGS	31/08/2007	Specifies: a) overall indicators to express the energy performance of whole buildings, including heating, ventilation, air conditioning, domestic hot water and lighting systems; b) ways to express energy requirements for the design of new buildings or renovation of existing buildings; c) procedures to define reference values; d) ways to design a procedure for building energy certification.	Energy	Commercial Facilities	Government Facilities	Residential Facilities	Foreword Introduction 1 Scope 2 Normative references 3 Terms and definitions 4 Symbols and abbreviations 5 Energy performance indicators 5.1 Indicators 5.2 Indicator basis 5.3 Normalization of energy rating 6 Expression of energy requirements 6.1 Ways of expressing the requirements 6.2 Overall energy requirements 6.3 Modification of the impact of certain parameters 6.4 Renovation of and extensions to existing buildings 7 Reference values 7.1 Types of reference values 7.2 Content of reference values 7.3 Documentation of reference values 8 Procedure for building energy certification 8.1 General 8.2 Content of procedure for building energy certification 8.3 Content of the energy certificate 8.4 Overall energy performance indicator 8.5 Performance scale 8.6 Recommendations Annex A (normative) Procedure for building energy certification
BS EN 15643-1	SUSTAINABILITY OF CONSTRUCTION WORKS - SUSTAINABILITY ASSESSMENT OF BUILDINGS - PART 1: GENERAL FRAMEWORK	31/10/2010	Gives the general principles and requirements, expressed through a series of standards, for the assessment of buildings in terms of environmental, social and economic performance taking into account technical characteristics and functionality of a building.	Commercial Facilities	Government Facilities	Residential Facilities		Foreword Introduction 1 Scope 2 Normative references 3 Terms and definitions 4 Principles 5 Requirements for assessment methods Annex A (informative) - Work programme of CEN/TC 350 Bibliography

BS EN 15643-2	SUSTAINABILITY OF CONSTRUCTION WORKS - ASSESSMENT OF BUILDINGS - PART 2: FRAMEWORK FOR THE ASSESSMENT OF ENVIRONMENTAL PERFORMANCE	31/03/2012	Gives the specific principles and requirements for the assessment of environmental performance of buildings taking into account technical characteristics and functionality of a building.	Commercial Facilities	Government Facilities	Residential Facilities		Foreword Introduction 1 Scope 2 Normative references 3 Terms and definitions 4 Principles 5 Requirements for assessment methods 6 Requirements for calculation methods for assessment of environmental performance of buildings Annex A (informative) - Work programme of CEN/TC 350 Annex B (informative) - Environmental indicators Bibliography
BS EN 15643-3	SUSTAINABILITY OF CONSTRUCTION WORKS - ASSESSMENT OF BUILDINGS - PART 3: FRAMEWORK FOR THE ASSESSMENT OF SOCIAL PERFORMANCE	29/02/2012	Pertains to all types of buildings, both new and existing, and it is relevant for the assessment of the social performance of new buildings over all stages of their life cycle, and of existing buildings to their end of life.	Commercial Facilities	Government Facilities	Residential Facilities		Foreword Introduction 1 Scope 2 Normative references 3 Terms and definitions 4 Principles 5 Requirements for assessment methods 6 Requirements for assessment methods of social performance of buildings Annex A (informative) - Work programme of CEN/TC 350 Annex B (informative) - Social Aspects in the Life cycle stages of construction works Bibliography

BS EN 15643-4	SUSTAINABILITY OF CONSTRUCTION WORKS - ASSESSMENT OF BUILDINGS - PART 4: FRAMEWORK FOR THE ASSESSMENT OF ECONOMIC PERFORMANCE	29/02/2012	Pertains to all types of buildings and it is relevant for the assessment of the economic performance of new buildings over their life cycle, and of existing buildings over their remaining service life and end of life stage.	Commercial Facilities	Government Facilities	Residential Facilities		Foreword Introduction 1 Scope 2 Normative references 3 Terms and definitions 4 Principles 5 Requirements for assessment methods 6 Requirements for calculation methods for assessment of economic performance of buildings Annex A (informative) - Work programme of CEN/TC 350 Annex B (informative) - Economic aspects of building performance through the life cycle of the building Annex C (informative) - Economic indicators Annex D (informative) - Potential Economic indicators Bibliography
BS EN 15759-1	CONSERVATION OF CULTURAL PROPERTY - INDOOR CLIMATE - PART 1: GUIDELINES FOR HEATING CHURCHES, CHAPELS AND OTHER PLACES OF WORSHIP	31/12/2011	Specifies guidelines for the selection of heating strategies and heating systems in churches, chapels and other places of worship such as mosques and synagogues, in order to prevent damage to cultural property while at the same time creating an indoor climate that allows for a sustainable use of these buildings.	Commercial Facilities	Government Facilities	Residential Facilities		Foreword Introduction 1 Scope 2 Normative references 3 Terms and definitions 4 General aspects to be considered before and during the application of the standard 5 Assessment of building, interiors and contents 6 Specification for indoor climate 7 Heating strategies 8 Heating systems and their application 9 Implementation 10 Evaluation 11 Comments on the application of this standard Annex A (informative) - Flow chart giving an overview of the standard Bibliography

BS EN 15942	SUSTAINABILITY OF CONSTRUCTION WORKS - ENVIRONMENTAL PRODUCT DECLARATIONS - COMMUNICATION FORMAT BUSINESS-TO-BUSINESS	31/10/2011	Pertains to all construction products and services related to buildings and construction works.	Commercial Facilities	Government Facilities	Residential Facilities		Foreword Introduction 1 Scope 2 Normative references 3 Terms and definitions 4 Symbols and abbreviations 5 General principles 6 Requirements for EPD communication format 7 Information Transfer Matrix Annex A (normative) - Master ITM Annex B (normative) - Information modules according to FprEN 15804:2011 Bibliography
BS EN 15978	SUSTAINABILITY OF CONSTRUCTION WORKS - ASSESSMENT OF ENVIRONMENTAL PERFORMANCE OF BUILDINGS - CALCULATION METHOD	31/01/2012	Describes the calculation method, based on Life Cycle Assessment (LCA) and other quantified environmental information, to assess the environmental performance of a building, and gives the means for the reporting and communication of the outcome of the assessment.	Commercial Facilities	Government Facilities	Residential Facilities		Foreword Introduction 1 Scope 2 Normative references 3 Terms and definitions 4 Abbreviations 5 The process for setting up the calculations required for the assessment 6 Purpose of the assessment 7 Specification of the object of assessment 8 Scenarios for defining the building life cycle 9 Quantification of the building and its life cycle 10 Selection of environmental data and other information - Use of Environmental Product Declaration(s) 11 Calculation of the environmental indicators 12 Reporting of the assessment of results 13 Verification of results Annex A (informative) - Building description Annex B (informative) - Exported energy - Case studies Bibliography

BS EN 16309	SUSTAINABILITY OF CONSTRUCTION WORKS - ASSESSMENT OF SOCIAL PERFORMANCE OF BUILDINGS - CALCULATION METHODOLOGY	31/03/2014	Gives the specific methods and requirements for the assessment of social performance of a building while taking into account the building's functionality and technical characteristics.	Commercial Facilities	Government Facilities	Residential Facilities		Foreword Introduction 1 Scope 2 Normative references 3 Terms and definitions 4 Purpose of the assessment of social performance of buildings 5 Specification of the object of assessment 6 Scenarios 7 Methods for assessment of social performance 8 Data for the assessment 9 Reporting and communication 10 Verification of results Annex A (normative) - Assessment procedure Annex B (informative) - Building characteristics used in an assessment Annex C (informative) - Sourcing of materials and services Bibliography
BS EN 16508	BS EN 16508 - TEMPORARY WORKS EQUIPMENT - ENCAPSULATION CONSTRUCTIONS - PERFORMANCE REQUIREMENTS AND GENERAL DESIGN	14/12/2012		Commercial Facilities	Government Facilities	Residential Facilities		Foreword Introduction 1 Scope 2 Normative references 3 Terms and definitions 4 Materials 5 General requirements 6 Classification 7 Structural design 8 Documentation Annex A (informative) - Pressure coefficients for the external pressure, c[pe]

BS EN 1998-4	EUROCODE 8 - DESIGN OF STRUCTURES FOR EARTHQUAKE RESISTANCE - PART 4: SILOS, TANKS AND PIPELINES	29/09/2006	Describes principles and application rules for the seismic design of the structural aspects of facilities composed of above-ground and buried pipeline systems and of storage tanks of different types and uses, as well as for independent items, such as for example single water towers serving a specific purpose or groups of silos enclosing granular materials, etc.	Energy	Water and Wastewater Systems	Commercial Facilities	Government Facilities	<p>FOREWORD 1 GENERAL 1.1 SCOPE 1.2 NORMATIVE REFERENCES 1.2.1 General reference standards 1.3 ASSUMPTIONS 1.4 DISTINCTION BETWEEN PRINCIPLES AND APPLICATIONS RULES 1.5 TERMS AND DEFINITIONS 1.5.1 General 1.5.2 Terms common to all Eurocodes 1.5.3 Further terms used in EN 1998 1.5.4 Further terms used in EN 1998-4 1.6 SYMBOLS 1.7 S.I. UNITS 2 GENERAL PRINCIPLES AND APPLICATION RULES 2.1 SAFETY REQUIREMENTS 2.1.1 General 2.1.2 Ultimate limit state 2.1.3 Damage limitation state 2.1.4 Reliability differentiation 2.1.5 System versus element reliability 2.1.6 Conceptual design 2.2 SEISMIC ACTION 2.3 ANALYSIS 2.3.1 Methods of analysis 2.3.2 Interaction with the soil 2.3.3 Damping 2.3.3.1 Structural damping 2.3.3.2 Contents damping 2.3.3.3 Foundation damping 2.3.3.4 Weighted</p>
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BS EN 50162	PROTECTION AGAINST CORROSION BY STRAY CURRENT FROM DIRECT CURRENT SYSTEMS	19/01/2005	Specifies the general principles to be adopted to minimize the effects of stray current corrosion caused by direct-current (d.c.) on buried or immersed metal structures.	Commercial Facilities	Government Facilities			Introduction 1 Scope 2 Normative references 3 Definitions 4 Information exchange and co-operation 5 Identification and measurement of stray current interference 5.1 Identification 5.2 Measurement 6 Criteria for stray-current interference 6.1 Anodic interference 6.2 Cathodic interference 7 Reduction of stray current interference - Modifications to current source 7.1 General 7.2 Principles 7.3 Direct current systems at industrial sites 7.4 Direct current systems at ports 7.5 Direct current communication systems 7.6 Direct current traction systems 7.7 High-voltage direct current transmission systems 7.8 Cathodic protection systems 7.9 Interference caused by electrical drainage (secondary interference) 8 Reduction of stray current interference - Modifications to the interfered structure 8.1 General 8.2 Design prerequisites 8.3 Installation of mitigation devices
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BS EN ISO 13702	PETROLEUM AND NATURAL GAS INDUSTRIES - CONTROL AND MITIGATION OF FIRES AND EXPLOSIONS ON OFFSHORE PRODUCTION INSTALLATIONS - REQUIREMENTS AND GUIDELINES	15/06/1999	Covers the objectives, functional requirements and guidelines for the control and mitigation of fires and explosions on offshore installations used for developing hydrocarbon resources.	energy	Commercial Facilities	Emergency Services		<p>1 Scope 2 Terms, definitions and abbreviated terms 3 Objectives 4 Fire and explosion evaluation and risk management 5 Installation layout 6 Emergency shutdown systems and blowdown 7 Control of ignition 8 Control of spills 9 Emergency power systems 10 Fire and gas systems 11 Active fire protection 12 Passive fire protection 13 Explosion mitigation and protection systems 14 Evacuation, escape and rescue 15 Inspection, testing and maintenance Annex A (informative) Typical fire and explosion hazardous events Annex B (informative) Guidelines to the control and mitigation of fires and explosions Annex C (informative) Typical examples of design requirements for large integrated offshore installations Bibliography</p>
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BS IEC 62244	Radiation protection instrumentation. Installed radiation monitors for the detection of radioactive and special nuclear materials at national borders	30/9/2011	Describes the performance of installed monitors used for the detection of gamma and neutron radiation emitters contained in objects/containers or vehicles, general characteristics, mechanical characteristics, environmental requirements, test procedures and documentation. Applicable to installed monitors designed to detect special nuclear and other radioactive materials by their emitted gamma and/or neutron radiation.	Nuclear Reactors, Materials, and Waste	Emergency Services			<ul style="list-style-type: none"> 1 Scope and object 2 Normative references 3 Terms and definitions 4 General characteristics <ul style="list-style-type: none"> 4.1 Overview 4.2 Pedestrian 4.3 Road vehicles (includes road transported containers) 4.4 Rail vehicles (includes rail transported containers) 4.5 Conveyor 4.6 Configuration 4.7 Indication features 4.8 Speed control 5 General test procedures <ul style="list-style-type: none"> 5.1 Nature of tests 5.2 Reference conditions and standard test conditions 5.3 Tests performed under standard test conditions 5.4 Tests performed with variation of influence quantities 5.5 Statistical fluctuations 5.6 Alarm probability for gamma and neutron radiation 5.7 Reference radiation
BS ISO 15392	SUSTAINABILITY IN BUILDING CONSTRUCTION - GENERAL PRINCIPLES	31/07/2008	Provides general principles for sustainability in building construction.	Commercial Facilities	Government Facilities	Residential Facilities		<ul style="list-style-type: none"> Foreword Introduction 1 Scope 2 Normative references 3 Terms and definitions 4 General 5 Sustainability in buildings and other construction works <ul style="list-style-type: none"> 5.1 General 5.2 Objectives 5.3 Principles 6 Guidance on the application of the general principles <ul style="list-style-type: none"> 6.1 General 6.2 Economic aspects 6.3 Environmental aspects 6.4 Social aspects Annex A (informative) - Suite of standards for sustainability in building construction Annex B (informative) - Products of the building and construction sector Bibliography

BS ISO 15686-5	BUILDINGS AND CONSTRUCTED ASSETS - SERVICE-LIFE PLANNING - PART 5: LIFE-CYCLE COSTING	31/07/2008	Provides guidelines for performing life cycle cost (LCC) analyses of buildings and constructed assets and their parts.	Commercial Facilities	Government Facilities	Residential Facilities		Foreword Introduction 1 Scope 2 Normative references 3 Terms, definitions and abbreviations 3.1 Costs 3.2 Analysis/measures 3.3 Elements of calculation 3.4 Other terms 4 Principles of life-cycle costing 4.1 Purpose and scope of life-cycle costing 4.2 Costs to include in LCC analysis 4.3 Typical analysis at different stages of the life cycle 4.4 Analysis based on client requirements and the intended use of the results 4.5 Data for analysis at different stages of the project life cycle 4.6 Cost variables 4.7 Calculating cost variables and the form of future costs analysis 4.8 Discounting costs to present values 4.9 Approval and validation 4.10 Reporting LCC analysis 5 Setting the scope for LCC analysis 5.1 Relevance and importance of setting parameters for the use of life-cycle costing 5.2 Service life, life cycle and design life 5.3 Period of analysis 5.4 Cost variables 6 WLC
BS ISO 16817	BUILDING ENVIRONMENT DESIGN - INDOOR ENVIRONMENT - DESIGN PROCESS FOR VISUAL ENVIRONMENT	31/01/2012	Specifies an integrated design process for high-quality indoor visual environment including architectural and engineering aspects of daylighting and artificial lighting for user satisfaction, well-being and productivity as well as the energy performance and sustainability of buildings.	Commercial Facilities	Government Facilities	Residential Facilities		Foreword Introduction 1 Scope 2 Normative references 3 Terms and definitions 4 Fundamentals 5 Design process 6 Development of design criteria 7 Development of design aids 8 Cost evaluation Annex A (informative) - Matrix Annex B (informative) - Output of the detail design Bibliography

BS ISO/IEC 27002	INFORMATION TECHNOLOGY SECURITY TECHNIQUES - CODE OF PRACTICE FOR INFORMATION SECURITY CONTROLS	1/10/2013	Provides guidelines for organizational information security standards and information security management practice including the selection, implementation and management of controls taking into consideration the organization's information security risk environments(s).	Information Technology	business continuity			Foreword 0 Introduction 1 Scope 2 Normative references 3 Terms and definitions 4 Structure of this standard 5 Information security policies 6 Organization of information security 7 Human resource security 8 Asset management 9 Access control 10 Cryptography 11 Physical and environmental security 12 Operations security 13 Communications security 14 System acquisition, development and maintenance 15 Supplier relationships 16 Information security incident management 17 Information security aspects of business continuity management 18 Compliance Bibliography
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BS ISO/IEC 27010	INFORMATION TECHNOLOGY SECURITY TECHNIQUES - INFORMATION SECURITY MANAGEMENT FOR INTER-SECTOR AND INTER-ORGANIZATIONAL COMMUNICATIONS	30/04/2012	Gives guidelines in addition to guidance given in the ISO/IEC 27000 family of standards for implementing information security management within information sharing communities.	Information Technology	business continuity	communications		Foreword Introduction 1 Scope 2 Normative references 3 Terms and definitions 4 Concepts and justification 5 Security policy 6 Organization of information security 7 Asset management 8 Human resources security 9 Physical and environmental security 10 Communications and operations management 11 Access control 12 Information systems acquisition, development and maintenance 13 Information security incident management 14 Business continuity management 15 Compliance Annex A (informative) - Sharing sensitive information Annex B (informative) - Establishing trust in information exchanges Annex C (informative) - The Traffic Light Protocol Annex D (informative) - Models for organizing an information sharing community Bibliography
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BS ISO/IEC 27011	INFORMATION TECHNOLOGY SECURITY TECHNIQUES - INFORMATION SECURITY MANAGEMENT GUIDELINES FOR TELECOMMUNICATIONS ORGANIZATIONS BASED ON ISO/IEC 27002	31/05/2009	Provides guidelines supporting the implementation of information security management in telecommunications organizations.	Information Technology	business continuity	communications		1 Scope 2 Normative references 3 Definitions and abbreviations 3.1 Definitions 3.2 Abbreviations 4 Overview 4.1 Structure of this guideline 4.2 Information security management systems in telecommunications business 5 Security policy 6 Organization of information security 6.1 Internal organization 6.2 External parties 7 Asset management 7.1 Responsibility for assets 7.2 Information classification 8 Human resources security 8.1 Prior to employment 8.2 During employment 8.3 Termination or change of employment 9 Physical and environmental security 9.1 Secure areas 9.2 Equipment security 10 Communications and operations management 10.1 Operational procedures and responsibilities 10.2 Third party service delivery management 10.3 System planning and acceptance 10.4 Protection against malicious and mobile code 10.5 Back-up
BS PAS 1188-1(2009)	FLOOD PROTECTION PRODUCTS - SPECIFICATION - PART 1: BUILDING APERTURE PRODUCTS	30/04/2009	Defines requirements for the designation, testing, factory production control, installation documentation and marking for different types and configurations of flood protection products.	Water and Wastewater Systems	Commercial Facilities	Government Facilities	Residential Facilities	Foreword 1 Scope 2 Normative references 3 Terms and definitions 4 Requirements 4.1 Designation 4.2 DMWD 4.3 Installation and removal of a flood protection product 4.4 Leakage 4.5 Product guide/user manual 4.6 Factory production control 4.7 Marking Annexes Annex A (informative) - Definitions of flood protection product types Annex B (normative) - Method of test for leakage Annex C (normative) - Product guide/user manual Annex D (normative) - Requirements for factory production control Bibliography

BS PAS 1188-2(2009)	FLOOD PROTECTION PRODUCTS - SPECIFICATION - PART 2: TEMPORARY PRODUCTS	30/04/2009	Describes requirements for the designation, testing, factory production control, installation documentation and marking for different types and configurations of flood protection products intended for temporary installation, for use away from buildings but may be sealed against structures or buildings at section ends, in the UK or locations with similar exposures, i.e. where there is a temperate climate and advance warning of flooding is available.	Water and Wastewater Systems	Commercial Facilities	Government Facilities	Residential Facilities	Foreword 1 Scope 2 Terms and definitions 3 Requirements 3.1 Design 3.2 Designation 3.3 DMWD 3.4 Installation and removal of a flood protection product 3.5 Leakage 3.6 Product guide/user manual 3.7 Factory production control 3.8 Marking Annexes Annex A (informative) - Definitions of temporary flood protection products Annex B (normative) - Method of test for leakage and movement Annex C (normative) - Product guide/user manual Annex D (normative) - Requirements for factory production control Bibliography
BS PAS 1188-3(2009)	FLOOD PROTECTION PRODUCTS - SPECIFICATION - PART 3: BUILDING SKIRT SYSTEMS	30/04/2009	Defines requirements for the design, testing, factory production control, installation and user documentation, and marking for different types and configurations of building skirt system intended for the temporary sealing of the above ground external faces of buildings and properties, in the event of flood water rising up to a level between 600 mm and 900 mm above ground level.	Water and Wastewater Systems	Commercial Facilities	Government Facilities	Residential Facilities	Foreword 1 Scope 2 Normative references 3 Terms and definitions 4 Requirements 4.1 Design 4.2 DMWD 4.3 Installation and removal of a flood protection product 4.4 Leakage 4.5 Product guide/user manual 4.6 Factory production control 4.7 Marking Annexes Annex A (informative) - Building skirt system components Annex B (normative) - Method of test for leakage Annex C (normative) - Installation and user documentation Annex D (normative) - Requirements for factory production control Bibliography

BS PAS 1188-4(2009)	FLOOD PROTECTION PRODUCTS - SPECIFICATION - PART 4: DEMOUNTABLE PRODUCTS	30/04/2009	Defines requirements for the designation, testing, factory production control, installation documentation and marking for different types and configurations of flood protection products intended to be demountable, for use away from buildings, but may be sealed against structures or buildings at section ends, in the UK or locations with similar exposures, i.e. where there is a temperate climate and advanced warning of flooding is available.	Water and Wastewater Systems	Commercial Facilities	Government Facilities	Residential Facilities	Foreword 1 Scope 2 Terms and definitions 3 Requirements 3.1 Design 3.2 Designation 3.3 DMWD 3.4 Installation and removal of a flood protection product 3.5 Leakage 3.6 Product guide/user manual 3.7 Factory production control 3.8 Marking Annexes Annex A (informative) - Definitions of demountable flood protection products Annex B (normative) - Method of test for leakage and movement Annex C (normative) - Product guide/user manual Annex D (normative) - Requirements for factory production control Bibliography
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BS PAS 2015(2010)	FRAMEWORK FOR HEALTH SERVICES RESILIENCE	20/10/2010	Establishes techniques for improving and maintaining resilience for NHS-funded organizations that build on the activities that are already in progress within the organization. This: - provides a generic framework for a resilience programme, incorporating the principles of integrated emergency management (IEM); - promotes a consistent approach to, and understanding of, resilience; defines and demonstrates the importance of resilience in the context of health; - provides tangible and practical methods for applying resilience principles to all NHS-funded organizations; - identifies the BCM processes and the statutory and policy framework that enable health economies to respond	Healthcare and Public Health	Emergency Services	business continuity		Foreword Preface 0 Introduction 1 Scope 2 Framework for resilience 3 Anticipate (horizon scanning) 4 Assess 5 Prevent 6 Prepare 7 Respond 8 Recover 9 The maturity matrix 10 Embedding resilience and continual improvement Annexes Annex A (informative) - Existing elements of the regulatory framework Annex B (informative) - NHS Resilience stakeholders Annex C (informative) - Examples of good practice Annex D (informative) - Example training matrix Glossary Bibliography
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BS PAS 64(2013)	MITIGATION AND RECOVERY OF WATER DAMAGED BUILDINGS - CODE OF PRACTICE	30/07/2013	Includes the mitigation and recovery process including: a) initial inspection of a water damaged building; b) setting drying and cleaning goals (including air quality goals); c) selecting the drying and cleaning techniques and equipment to be used; d) monitoring the drying and cleaning progress; e) verifying drying and cleaning goals have been met; and f) documentation for provision to the customer.	Water and Wastewater Systems	Commercial Facilities	Government Facilities	Residential Facilities	Foreword Introduction 1 Scope 2 Terms and definitions 3 Mitigation and recovery process 4 Documentation for provision to the customer 5 Building repair and reinstatement Annexes Annex A (informative) - The initial inspection Annex B (informative) - Sources of water damage and their health risks for occupants Annex C (informative) - Surveying for practical moisture measurement thresholds Annex D (informative) - Drying goal recording document Annex E (informative) - Moisture measurement Annex F (informative) - General decontamination clearance - Achieving the cleaning goal Annex G (informative) - Indoor air quality Annex H (informative) - Drying methods, systems and equipment Annex I (informative) - Example environmental impact assessment Annex J (informative) - Cost benefit calculation assessment Annex K (informative) - Drying goal
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BS PD IEC TR 62222	FIRE PERFORMANCE OF COMMUNICATION CABLES INSTALLED IN BUILDINGS	30/04/2013	Gives recommendations for the requirements and test methods to be specified for the fire performance of communication cables when installed in buildings.	communications	Commercial Facilities	Government Facilities	Residential Facilities	<p>FOREWORD 1 Scope 2 Normative references 3 Terms, definitions and abbreviations 4 Typical communication cable installations 5 Legislation and regulation 6 Approach to fire mitigation 7 Recent project for regulation - The FIPEC [6] project 8 Fire protection 9 Test methods 10 Fire performance requirements Annex A (informative) - Procedure for mounting cable - Typical communication cable installations Annex B (informative) - Fire hazards/installations/applications/test methods for communication cables in buildings Annex C (informative) - Review of test methods Annex D (informative) - Fire performance requirements Bibliography</p>
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BS PD IEC TR 80001-2-1	APPLICATION OF RISK MANAGEMENT FOR IT-NETWORKS INCORPORATING MEDICAL DEVICES - PART 2-1: STEP-BY-STEP RISK MANAGEMENT OF MEDICAL IT-NETWORKS - PRACTICAL APPLICATIONS AND EXAMPLES	31/10/2012	Gives step-by-step information to aid RESPONSIBLE ORGANIZATIONS in implementation of the RISK MANAGEMENT PROCESS required by IEC 80001-1.	Information Technology	business continuity	Healthcare and Public Health		FOREWORD INTRODUCTION 1 Scope 2 Normative references 3 Terms and definitions 4 Prerequisites 5 Study of terms used in RISK MANAGEMENT 6 The steps 7 IEC 80001-1:2010, Clause 4.4: Step by step 8 Practical examples Annex A (informative) - Common HAZARDS, HAZARDOUS SITUATIONS, and causes to consider in MEDICAL IT-NETWORKS Annex B (informative) - List of questions to consider when identifying HAZARDS of the MEDICAL IT-NETWORK Annex C (informative) - Layers of MEDICAL IT-NETWORKS where errors can be found Annex D (informative) - Probability, severity, and RISK acceptability scales used in the examples in this technical report Annex E (informative) - MONITORING RISK mitigation effectiveness Annex F (informative) - RISK ANALYZING small changes in a MEDICAL IT-NETWORK Annex G (informative) - Example of Change Window Form Annex H
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BS PD IEC/TR 61000-2-14	ELECTROMAGNETIC COMPATIBILITY (EMC) - PART 2-14: ENVIRONMENT - OVERVOLTAGES ON PUBLIC ELECTRICITY DISTRIBUTION NETWORKS	31/01/2007	Defines electromagnetic environment with respect to the voltages in excess of normal that are found on electricity supply networks operating at low and medium nominal voltages and that can be impressed on equipment connected to those networks, without considering further effects (e.g. amplification or attenuation) within an installation.	Energy	Information Technology			<p>INTRODUCTION 1 Scope 2 Normative references 3 Terms and definitions 4 Description of overvoltages 4.1 General 4.2 External overvoltages 4.3 Internal overvoltages 4.4 Overvoltage waveshape 5 Long duration overvoltages 5.1 Sustained earth faults 5.2 Broken neutral on LV network 5.3 Maloperation of voltage regulating equipment 5.4 Overvoltages due to voltage unbalances 5.5 Dispersed generation 6 Short duration overvoltages 6.1 Earth faults 6.2 Load rejection (sudden load loss) 6.3 Self-excitation 6.4 Resonance and ferroresonance 7 Very short duration overvoltages (transients) 7.1 General description 7.2 Lightning 7.3 Switching 7.4 Summary of surge duration and cause 8 Effects of overvoltages on equipment 8.1 General considerations 8.2 Reduction in life of filament lamps 8.3 Effect of overvoltages on IT</p>
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BS PD ISO/IEC TR 27019	INFORMATION TECHNOLOGY SECURITY TECHNIQUES - INFORMATION SECURITY MANAGEMENT GUIDELINES BASED ON ISO/IEC 27002 FOR PROCESS CONTROL SYSTEMS SPECIFIC TO THE ENERGY UTILITY INDUSTRY	30/09/2013	Specifies process control systems used by the energy utility industry for controlling and monitoring the generation, transmission, storage and distribution of electric power, gas and heat in combination with the control of supporting processes.	Energy	Information Technology			Foreword Introduction 1 Scope 2 Normative references 3 Terms and definitions 4 Overview 5 Security policy 6 Organization of information security 7 Asset management 8 Human resource security 9 Physical and environmental security 10 Communications and operations management 11 Access control 12 Information systems acquisition, development and maintenance 13 Information security incident management 14 Business continuity management 15 Compliance Annex A (Informative) - Energy utility extended control set Annex B (Informative) - Additional implementation guidance Bibliographic references
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BS PD ISO/TR 21932	SUSTAINABILITY IN BUILDINGS AND CIVIL ENGINEERING WORKS - A REVIEW OF TERMINOLOGY	30/11/2013	Gives a compilation of terms and definitions of concepts related to both the construction and use of a building or civil engineering works, and the effect of such construction works on sustainability and sustainable development, as applied in the documents of ISO/TC 59/SC 17, Sustainability in buildings and civil engineering works.	Commercial Facilities	Government Facilities	Residential Facilities		Foreword Introduction 1 Scope 2 Vocabulary structure 3 Terms relating to sustainability in buildings and civil engineering works Annex A (informative) - Representative model of the methodology used in the development of the terminology Annex B (informative) - Additional information on the on-going development of terminology and definitions within ISO/TC 59/SC 17 Annex C (informative) - European Committee for Standardization (CEN)/TC 350 on Sustainability of construction works and its general terminology Annex D (informative) - Terminology and language regarding products of the building and construction sector Annex E (informative) - Alphabetical index of terms Bibliography
BS PD ISO/TS 12720	SUSTAINABILITY IN BUILDINGS AND CIVIL ENGINEERING WORKS - GUIDELINES ON THE APPLICATION OF THE GENERAL PRINCIPLES IN ISO 15392	30/04/2014	Describes guidance for the application of the general principles of sustainability in buildings and civil engineering works elaborated in ISO 15392.	Commercial Facilities	Government Facilities	Residential Facilities		Foreword Introduction 1 Scope 2 Normative references 3 Terms and definitions 4 Elements of the framework 5 Methodological approach 6 Application guidance Annex A (normative) - The nine general principles taken from ISO 15392:2008, Clause 5.3 Bibliography

BS PD25222(2011)	BUSINESS CONTINUITY MANAGEMENT - GUIDANCE ON SUPPLY CHAIN CONTINUITY	31/12/2011	Provides guidance on continuity management within the supply chain. Also relationships upstream and downstream, between suppliers and customers, and between organizations in the same tier of the supply chain.	Business Continuity				Foreword Introduction 1 Scope 2 Normative references 3 Terms and definitions 4 Why is supply chain continuity important? 5 Analysis of the supply chain 6 Considering options: developing strategies 7 Operational considerations 8 Assurance, ongoing management and review Annexes Annex A (informative) - Working with critical suppliers Bibliography
BS PD25888(2011)	BUSINESS CONTINUITY MANAGEMENT - GUIDANCE ON ORGANIZATION RECOVERY FOLLOWING DISRUPTIVE INCIDENTS	31/12/2011	Provides guidance on the development and implementation of the organization recovery element applicable to an organization's response to an incident.	Business Continuity				Foreword Introduction 1 Scope 2 Terms and definitions 3 The relationship between recovery management, incident management and business continuity management 4 Establishing an organization recovery management capability 5 Organization recovery planning 6 Actions on implementation 7 Return to normal operations Annexes Annex A (informative) - Possible causes of restrictions to access to premises Annex B (informative) - Insurance Bibliography

BS PD7974-4(2003)	APPLICATION OF FIRE SAFETY ENGINEERING PRINCIPLES TO THE DESIGN OF BUILDINGS - PART 4: DETECTION OF FIRE AND ACTIVATION OF FIRE PROTECTION SYSTEMS (SUB-SYSTEM 4)	14/03/2003	Specifies guidance on the development, design and application of fire detection systems, and the activation of fire alarm and fire control systems to fulfill a role in the fire safety engineered design for a building.	Commercial Facilities	Government Facilities	Residential Facilities	Emergency Services	Foreword 1 Scope 2 Normative references 3 Terms and definitions 4 Symbols and abbreviations 5 Design approach 6 Design inputs and outputs 7 Fire detection 8 Activation of local and remote alarm systems 9 Activation of fire suppression systems 10 Activation of fire barrier systems 11 Activation of smoke control systems 12 Interactions of smoke control and suppression systems 13 Management of fire safety Annex A (normative) Critical path analysis for fire control and suppression systems Annex B (informative) Determination of heat detector spacing Bibliography
BOMA Z65.1	OFFICE BUILDINGS: STANDARD METHODS OF MEASUREMENT	1/9/1996	Aims to provide a uniform basis for measuring rentable area in both existing and new office buildings by taking a building-wide approach to floor area measurement. Also, covers a methodology for measuring both occupant space as well as the space that benefits all occupants.	Commercial Facilities	Government Facilities			Legal Notice Acknowledgements Introduction Section 1A: Scope Section 1B: Application and use Section 2: Read me First Section 3: Overview of measurement methods Section 4: Measurement methods Section 5: Definitions Section 6: Measurement concepts Section 7: List of illustrations and worksheets Appendix Illustrations and Worksheets
BOMA Z65.2	INDUSTRIAL BUILDINGS: STANDARD METHODS OF MEASUREMENT	2012		Commercial Facilities	Government Facilities			

BOMA Z65.3	GROSS AREAS OF A BUILDING: STANDARD METHODS OF MEASUREMENT	2009	Specifies procedures for measuring construction gross area and exterior gross area of buildings and provides unequivocal, direct measure of the physical size of a building.	Commercial Facilities	Government Facilities	Residential Facilities		Introduction Section 1: Scope Section 2: Preface Section 3: Summary of Method Section 4: Definitions Section 5: Illustrations Appreciation Legal Notice
BOMA Z65.4	MULTI-UNIT RESIDENTIAL BUILDINGS: STANDARD METHODS OF MEASUREMENT	2010	Specifies a uniform methodology for computing, communicating and comparing the measurement of multi-unit residential buildings.	residential facilities				Part I: Legal Notice Acknowledgements Introduction Section 1: scope, application and use Section 2: read me First Section 3: overview of measurement methods Section 4: measurement methods Section 5: definitions Section 6: measurement concepts Section 7: list of illustrations and worksheets Appendix Part II: Illustrations and Worksheets
BOMA Z65.5	RETAIL BUILDINGS: STANDARD METHOD OF MEASUREMENT	2010	Specifies a uniform methodology for computing, communicating and comparing the measurement of retail buildings. Provides an unequivocal direct measure of the physical size of the floor area of a retail building and offers three measurement methods.	Commercial Facilities				Legal Notice Acknowledgements Introduction Section 1: Scope Section 2: Measurement Method Section 3: Definitions Section 4: Illustrations

BOMA Z65.6	MIXED-USE PROPERTIES: STANDARD METHODS OF MEASUREMENT	2012	Gives a uniform methodology for computing, communicating and comparing the measurement of mixed-use properties.	Commercial Facilities	Government Facilities	Residential Facilities		
BIS IS 14850	FIRE SAFETY OF MUSEUMS - CODE OF PRACTICE	2000(R2005)		Commercial Facilities	Government Facilities	Emergency Services		
BIS IS 15498	GUIDELINES FOR IMPROVING THE CYCLONIC RESISTANCE OF LOW RISE HOUSES AND OTHER BUILDINGS/STRUCTURES	2004(R2009)	Provides the guidelines regarding planning, design and construction aspects for improving the cyclonic resistance of low rise houses and other buildings/structures.	Commercial Facilities	Government Facilities	Residential Facilities		FOREWORD 1 SCOPE 2 REFERENCES 3 CYCLONIC WIND FIELD 4 CYCLONIC WIND SPEED FOR DESIGN OF BUILDINGS AND STRUCTURES 5 PRESSURES AND FORCES 6 GUIDELINES FOR PLANNING 7 GUIDELINES FOR NON-ENGINEERED CONSTRUCTION 8 GUIDELINES FOR SEMI-ENGINEERED CONSTRUCTION 9 GUIDELINES FOR ENGINEERED CONSTRUCTION ANNEX A - LIST OF REFERRED INDIAN STANDARDS ANNEX B - COMMITTEE COMPOSITION
BIS IS 15499	GUIDELINES FOR SURVEY OF HOUSING AND BUILDING TYPOLOGY IN CYCLONE PRONE AREAS FOR ASSESSMENT OF VULNERABILITY OF REGIONS AND POST CYCLONE DAMAGE ESTIMATION	2004		Commercial Facilities	Government Facilities	Residential Facilities		

BIS IS/ISO/IEC 24762	INFORMATION TECHNOLOGY SECURITY TECHNIQUES - GUIDELINES FOR INFORMATION AND COMMUNICATIONS TECHNOLOGY DISASTER RECOVERY SERVICES	2008	Aims to provide aid to the operation of an Information Security Management System (ISMS) by providing guidance on the provision of information and communications technology disaster recovery (ICT DR) services as part of business continuity management.	Information Technology	Emergency Services	communications		
CSA A23.1 A23.2	CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION/TEST METHODS AND STANDARD PRACTICES FOR CONCRETE		Specifies the requirements for materials and methods of construction for: (a) cast-in-place concrete and concrete precast in the field; and (b) residential concrete used in the construction of buildings conforming to Part 9 of the National Building Code of Canada (NBCC). Also covers the principal test methods for hardened and freshly mixed concrete and for concrete materials.	Commercial Facilities	Government Facilities	Residential Facilities		Preface A23.1-09, Concrete materials and methods of concrete construction 0 Introduction 1 Scope 2 Reference publications 3 Definitions 4 Materials and concrete properties 5 Production and delivery 6 Formwork, reinforcement, and prestressing 7 Placing, finishing, and curing concrete 8 Concrete with special performance or material requirements Annexes A (informative) - Special cements B (informative) - Alkali-aggregate reaction C (informative) - Tolerances: Principles, preferred sizes, and usage D (informative) - Guidelines for curing and protection E (informative) "Reserved"- Concrete surface tolerances: Elevation, slope, and waviness F (informative) - Abrasion resistance of concrete surfaces G (informative) - Sample grouting record H (informative) - Fibre-reinforced concrete I (informative) - High-performance concrete J

CSA ISO 14798	LIFTS (ELEVATORS), ESCALATORS AND MOVING WALKS - RISK ASSESSMENT AND REDUCTION METHODOLOGY	1/1/2012	Sets up general principles and specific procedures for assessing risk.	Commercial Facilities	Government Facilities	Residential Facilities		Foreword Introduction 1 Scope 2 Terms and definitions 3 General principles 4 Risk analysis procedure 5 Step 6 - Risk evaluation 6 Step 7 - Has the risk been sufficiently mitigated? 7 Step 8 - Reduction of risk - Protective measures 8 Documentation Annex A (normative) - Risk assessment template Annex B (informative) - Quick references to hazards, hazardous situations, causes, effects and harm Annex C (normative) - Estimation of risk elements - Severity and probability Annex D (normative) - Risk estimation and evaluation Annex E (informative) - Role of the team moderator Annex F (informative) - Examples of a risk assessment and protective measures Bibliography
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CSA ISO 19900	PETROLEUM AND NATURAL GAS INDUSTRIES - GENERAL REQUIREMENTS FOR OFFSHORE STRUCTURES	21/01/2011	Specifies general principles for the design and assessment of structures subjected to known or foreseeable types of actions.	Energy	Commercial Facilities	Government Facilities		Foreword Introduction 1 Scope 2 Terms and definitions 3 Symbols and abbreviated terms 3.1 Symbols 3.2 Abbreviated terms 4 General requirements and conditions 4.1 Fundamental requirements 4.2 Durability, maintenance and inspection 4.3 Hazards 4.4 Design basis 4.5 Service requirements 4.6 Operating requirements 4.7 Special requirements 4.8 Location and orientation 4.9 Structural configuration 4.10 Environmental conditions 4.11 Construction 4.12 Decommissioning and removal 5 Principles of limit states design 5.1 Limit states 5.2 Design 6 Basic variables 6.1 General 6.2 Actions 6.3 Properties of materials and soils 6.4 Geometrical parameters 7 Analyses - calculations and testing 7.1 General 7.2 Calculation 7.3 Model testing 7.4 Prototype testing 7.5 Existing reference 8 Design format of partial factors
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CSA N393	FIRE PROTECTION FOR FACILITIES THAT PROCESS, HANDLE, OR STORE NUCLEAR SUBSTANCES	1/12/2013	Describes the minimum fire protection requirements for the design, construction, commissioning, operation, and decommissioning of facilities which process, handle, or store nuclear substances, including structures, systems and components, and other hazardous substances that directly relate to the nuclear substances being regulated.	Nuclear Reactors, Materials, and Waste	Emergency Services			Preface 1 Scope 2 Reference publications 3 Definitions and abbreviations 4 General requirements 5 Fire protection concepts 6 Fire hazard assessment (FHA) 7 Design requirements for the prevention and mitigation of fires 8 Design and installation requirements for fire protection systems 9 Special hazards within nuclear facilities 10 Fire protection program 11 Fire response capability 12 Fire protection requirements for decommissioning Annex A (informative) - Commentary on Clauses in CSA N393 Annex B (informative) - Guidelines for the preparation of a fire hazard assessment (FHA)
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CSA S806	DESIGN AND CONSTRUCTION OF BUILDING STRUCTURES WITH FIBRE-REINFORCED POLYMERS	1/3/2012	Specifies requirements for the design and evaluation of building components of fibre-reinforced polymers (FRP) in buildings and of building components reinforced with FRP materials.	Commercial Facilities	Government Facilities	Residential Facilities	<p>Preface 1 Scope 2 Reference publications 3 Definitions, abbreviations, subscripts and symbols, and units of measurement 4 Drawings and related documents 5 General design requirements 6 Limit states, loading, load combinations, and factored resistance 7 Properties of FRP components and reinforcing materials 8 Design of concrete components with FRP reinforcement 9 Development and splices of reinforcement 10 Design of concrete components prestressed with FRP 11 Strengthening of concrete masonry and steel components with FRP 12 Provisions for seismic design 13 Design of FRC/FRP composites cladding 14 Construction Annexes A (normative) - Determination of cross-sectional area of FRP reinforcement B (normative) - Anchor for testing FRP specimens under monotonic, sustained, and cyclic tension C (normative) - Test</p>
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CSA S832	SEISMIC RISK REDUCTION OF OPERATIONAL AND FUNCTIONAL COMPONENTS (OFCS) OF BUILDINGS	20/06/2011	Applies to OFCs in buildings with significant seismic hazards as defined in Clause 4.1.8.1 of the NBCC. Généralités Ces lignes directrices visent à informer et à donner une méthodologie pour identifier et évaluer les dangers causés par les forces sismiques agissant sur les composants fonctionnels et opérationnels (CFO) des bâtiments. Elles visent également à permettre la mise en oeuvre des stratégies et des techniques appropriées pour atténuer les effets des tremblements de terre. Il importe de noter que la performance structurale du bâtiment influe sur la diminution des risques sismiques concernant les CFO, bien que les lignes directrices ne traitent pas de l'intégrité	Commercial Facilities	Government Facilities	Residential Facilities		<p>Technical Committee on Seismic Risk Reduction</p> <p>Preface 0</p> <p>Introduction 1</p> <p>Scope 1.1</p> <p>General 1.2</p> <p>Application 1.3</p> <p>Exclusions and limitations 1.4</p> <p>Terminology 2</p> <p>Reference publications 3</p> <p>Definitions and symbols 3.1</p> <p>Definitions 3.2</p> <p>Symbols 4</p> <p>Seismic risk reduction procedures for new buildings 4.1</p> <p>General 4.2</p> <p>Assessment team 4.3</p> <p>Recommended procedure - OFCs in new buildings 4.3.1</p> <p>Requirements 4.3.2</p> <p>Design procedure 5</p> <p>Performance objectives 5.1</p> <p>General 5.2</p> <p>Category of performance objectives 5.2.1</p> <p>General 5.2.2</p> <p>Life safety 5.2.3</p> <p>Immediate/continued occupancy 5.2.4</p> <p>Functionality 5.3</p> <p>Property protection 6</p> <p>Methods for determining seismic adequacy 6.1</p> <p>General 6.2</p> <p>Prescriptive method 6.3</p> <p>Analytical method 6.4</p> <p>Special requirements 6.4.1</p> <p>Seismic qualification testing 6.4.2</p> <p>Horizontal/vertical forces</p>
CSA SPE 7003	SUSTAINABILITY STANDARD FOR HOUSEHOLD CLOTHES WASHING APPLIANCES	16/05/2013	Defines clothes washing appliances for household and residential style commercial use (e.g., a coin-operated appliance in an apartment building) included within the scope of the U.S. Department of Energy (DoE) and Natural Resources Canada (NRCan) minimum energy performance requirements.					<p>Foreword</p> <p>Preface 1</p> <p>Scope 2</p> <p>Normative references 3</p> <p>Definitions 4</p> <p>General requirements 5</p> <p>Point allocation system 6</p> <p>Prerequisites 7</p> <p>Audit scope and boundaries 8</p> <p>Attributes, criteria, and metrics 9</p> <p>Document retention and record keeping Annexes</p> <p>A (informative) - Multi-attribute approach</p> <p>B (informative) - References</p> <p>C (informative) - Environmental management systems</p> <p>D (informative) - Innovation</p> <p>E (informative) - Pre-consumer and post-consumer recycled content</p> <p>F (informative) - Drafting process</p>

CSA Z246.1	SECURITY MANAGEMENT FOR PETROLEUM AND NATURAL GAS INDUSTRY SYSTEMS	1/3/2013	Defines criteria for establishing a security management program for petroleum and natural gas industry systems to ensure security threats and associated risks are identified and managed.	Energy				Preface 0 Introduction 1 Scope 2 Reference publications 3 Definitions 4 Security management program (SMP) 5 Security risk management 6 Information security management 7 Information technology/control systems security 8 Personnel security 9 Physical security measures 10 Security incident management 11 Monitoring and review
CSA Z731	EMERGENCY PREPAREDNESS AND RESPONSE	4/3/2009	Establishes minimum criteria for emergency planning, and provides guidance to owners and operators of private and public facilities as they develop a plan for effective emergency preparedness and response. This standard applies to all organizations that manufacture, use, store, distribute, transport or dispose of dangerous substances. It applies to all natural or human-caused emergencies. Cette norme établit les critères minimaux relatifs à la planification des mesures d'urgence pour l'industrie. Elle est destinée à servir de guide aux propriétaires et aux exploitants d'installations publiques ou privées aux fins de la mise en oeuvre d'un plan efficace de mesures préventives et d'intervention. Cette norme	Emergency Services				Technical Committee on Emergency Management Preface 0 Introduction 1 Scope 2 Reference Publications 3 Definitions and Abbreviations 3.1 Definitions 3.2 Abbreviations 4 Organization and Data Collection 4.1 Emergency Preparedness 4.2 Policy Statement 4.3 Program Coordinator 4.4 Hazard Identification 4.5 Emergency Response Plan (ERP) Development 4.6 Legislation and Industry Codes of Practice 4.7 Roles and Responsibilities 4.8 Resources 4.9 Emergency Response Procedures 4.10 Mutual Aid Agreements 4.11 Contact List 4.12 Communication Systems 4.13 Public Education and Information 5 Emergency Response 5.1 General 5.2 Records 5.2.1 General 5.2.2 Types of Records 5.2.3 Reasons for Record Retention 5.3 Incident Management 5.3.1 General 5.3.2 Facilities 5.4 Coordinated Response 5.4.1
SAC GB 22185	GENERAL REQUIREMENTS OF PUBLIC SAFETY AND SECURITY FOR STADIUM AND SPORTS HALL	1/11/2008		Commercial Facilities	Emergency Services	Healthcare and Public Health		

SAC GB/T 13284-1	THE SAFETY SYSTEMS FOR NUCLEAR POWER PLANTS - PART 1: DESIGN CRITERIA	2008		Nuclear Reactors, Materials, and Waste	Energy			
SAC GB/T 13347	FLAME ARRESTERS FOR PETROLEUM GAS PIPELINE SYSTEMS	1/6/2011		Energy	Transportation Systems	Emergency Services		
SAC GB/T 17680.10	Criteria for emergency planning and preparedness of nuclear power plants-- Criteria for emergency radiological field monitoring,sampling and analysis conducted by nuclear power plant operating organizations (TEXT OF DOCUMENT IS IN CHINESE)	24/3/2003		Nuclear Reactors, Materials, and Waste	Emergency Services			
SAC GB/T 19428	CODE FOR EARTHQUAKE DISASTER EVALUATION AND ITS INFORMATION MANAGEMENT SYSTEM	30/12/2003		Emergency Services	Information Technology			
SAC GB/T 20482	GRADE OF PASTORAL AREA SNOW DISASTER	1/11/2006		Emergency Services	Food and Agriculture			
SAC GB/T 24438-1	NATURAL DISASTER INFORMATION STATISTICS - PART 1: BASIC INDICATORS	1/12/2009		Emergency Services				
SAC GB/T 24438-2	NATURAL DISASTER INFORMATION STATISTICS - PART 2: EXTENDED INDICATORS	1/5/2013		Emergency Services				
SAC GB/T 24438-3	NATURAL DISASTER INFORMATION STATISTICS - PART 3: STRATIFIED RANDOM SAMPLING SURVEY STATISTICAL METHODS	1/2/2013		Emergency Services				
SAC GB/T 26376	BASIC TERMS ON NATURAL DISASTER MANAGEMENT	1/6/2011		Emergency Services				
SAC GB/T 27962	GRAPHICAL SYMBOLS FOR METEOROLOGICAL DISASTER WARNING SIGNAL ICON	1/3/2012		Emergency Services	Communications			

SAC GB/T 28221-1	BASIC PUBLIC SERVICES FOR POST-DISASTER TRANSITIONAL RESETTLEMENT AREA - PART 1: GENERAL	1/4/2012		Emergency Services	Societal			
SAC GB/T 28221-2	BASIC PUBLIC SERVICES FOR POST-DISASTER TRANSITIONAL RESETTLEMENT AREA - PART 2: ENVIRONMENT	1/4/2012		Emergency Services	Societal			
SAC GB/T 28221-3	BASIC PUBLIC SERVICES FOR POST-DISASTER TRANSITIONAL RESETTLEMENT AREA - PART 3: SAFETY	1/4/2012		Emergency Services	Societal			
SAC GB/T 28221-4	BASIC PUBLIC SERVICES FOR POST-DISASTER TRANSITIONAL RESETTLEMENT AREA - PART 4: BUSINESS	1/12/2012		Emergency Services	Societal			
SAC GB/T 28221-5	BASIC PUBLIC SERVICES FOR POST-DISASTER TRANSITIONAL RESETTLEMENT AREA - PART 5: CULTURE AND SPORTS	1/4/2012		Emergency Services	Societal			
SAC GB/T 28221-6	BASIC PUBLIC SERVICES FOR POST-DISASTER TRANSITIONAL RESETTLEMENT AREA - PART 6: ASSISTANCE AND RELIEF	1/4/2012		Emergency Services	Societal			
SAC GB/T 28225	SAMPLING & VERIFYING METHOD ON THE NUMBER OF COLLAPSED OR DAMAGED RURAL DWELLINGS IN NATURAL DISASTER-AFFECTED AREAS	1/4/2012		Emergency Services	Commercial Facilities	Residential Facilities	Government Facilities	
SAC GB/T 28944	VECTOR SURVEILLANCE AND CONTROL IN EMERGENCIES - FLOOD DISASTER	1/5/2013		Water and Wastewater Systems	Emergency Services			
SAC GB/T 29425	THE DIVIDING PRINCIPLES OF NATURAL DISASTER EMERGENCY RESPONSE AND RELIEF	1/7/2013		Emergency Services				

CAA CAP 760	GUIDANCE ON THE CONDUCT OF HAZARD IDENTIFICATION, RISK ASSESSMENT AND THE PRODUCTION OF SAFETY CASES: FOR AERODROME OPERATORS AND AIR TRAFFIC SERVICE PROVIDERS	10/12/2010	Gives guidance for Air Traffic Service Providers and Aerodrome Operators provides information on Hazard Identification, Risk Assessment and Developing Safety Cases.	Emergency Services	Transportation Systems			List of Effective Pages Revision History Foreword Introduction Glossary Chapter 1 - System Lifecycle Chapter 2 - Risk Assessment and Mitigation - Introducing the Seven-Step Process Chapter 3 - The Seven-Step Risk Assessment and Mitigation Process Appendix A - Hazard Identification using Brainstorming Appendix B - Failure Modes, Effects and Criticality Analysis Appendix C - Hazard and Operability Studies Appendix D - Using Event Trees Appendix E - Diagrammatic Representation of Safety Arguments Appendix F - Hazard Logs Appendix G - Required Level of Confidence in Evidence
CLSI GP46 R	PLANNING FOR CHALLENGES TO CLINICAL LABORATORY OPERATIONS DURING A DISASTER	1/10/2003	Gives the guidance on steps to be taken by the clinical laboratory to be prepared in the event of an emergency.	Emergency Services	Commercial Facilities	Government Facilities		
CWA 16633	AGEING BEHAVIOUR OF STRUCTURAL COMPONENTS WITH REGARD TO INTEGRATED LIFETIME ASSESSMENT AND SUBSEQUENT ASSET MANAGEMENT OF CONSTRUCTED FACILITIES	16/5/2013	Defines ageing behaviour of structural components with regard to integrated lifetime assessment and subsequent asset management of constructed facilities.	Commercial Facilities	Government Facilities	Residential Facilities		Foreword Introduction 1 Scope 2 Terms and definitions 3 Performance of bridge components Annex A (informative) - Lifeline calculation Annex B (informative) - Benchmark values on Service Life in Bridge Components Bibliography

DNV-RP F107	RISK ASSESSMENT OF PIPELINE PROTECTION	1/10/2010	Gives a methodology for assessing the risks and required protection from dropped crane loads and ship impact to risers and pipeline systems within the safety zone of installations.	Energy	Water and Wastewater Systems			<p>1 General</p> <p>1.1 Introduction</p> <p>1.2 Objectives</p> <p>1.3 Scope and Application</p> <p>1.4 General considerations</p> <p>1.5 Limitations</p> <p>1.6 Definitions</p> <p>2 Methodology</p> <p>2.1 Introduction</p> <p>2.2 Safety objectives</p> <p>2.3 Acceptance criteria</p> <p>2.4 System description</p> <p>2.5 Hazard identification</p> <p>2.6 Risk Assessment</p> <p>2.7 Risk reducing measures</p> <p>3 Activity description</p> <p>3.1 Platform/Rig</p> <p>3.2 Subsea operations</p> <p>3.3 Fishing</p> <p>3.4 Ship</p> <p>4 Pipeline and protection capacity</p> <p>4.1 General</p> <p>4.2 Damage classification</p> <p>4.3 Steel pipeline</p> <p>4.4 Flexible pipeline</p> <p>4.5 Umbilical</p> <p>4.6 Different protection methods</p> <p>5 Failure frequency</p> <p>5.1 Introduction</p> <p>5.2 Crane activity</p> <p>5.3 Energy calculation</p> <p>5.4 Ship traffic</p> <p>5.5 Simultaneous operations</p> <p>5.6 Trawling</p> <p>5.7 Anchor handling</p> <p>5.8 Frequency ranking</p> <p>6 Consequence</p> <p>6.1 Introduction</p> <p>6.2 Human safety</p> <p>6.3 Release to the environment</p> <p>6.4 Economic loss</p> <p>7 Risk assessment</p>
DNV-RP F116	INTEGRITY MANAGEMENT OF SUBMARINE PIPELINE SYSTEMS	1/10/2009	Provides guidance on how to establish, implement and maintain an integrity management system.	Energy	Water and Wastewater Systems			
DIN 4123 English	EXCAVATION, FOUNDATION AND UNDERPINNING WORK ADJACENT TO EXISTING BUILDINGS	Suspended		Emergency Services	Commercial Facilities	Government Facilities	Residential Facilities	

DIN EN 15004-1	FIXED FIREFIGHTING SYSTEMS - GAS EXTINGUISHING SYSTEMS - PART 1: DESIGN, INSTALLATION AND MAINTENANCE	1/9/2008	Describes requirements and gives recommendations for the design, installation, testing, maintenance and safety of gaseous fire fighting systems in buildings, plants or other structures, and the characteristics of the various extinguishants and types of fire for which they are a suitable extinguishing medium.	Emergency Services	Commercial Facilities	Government Facilities	Residential Facilities	Foreword Introduction 1 Scope 2 Normative references 3 Terms and definitions 4 Use and limitations 4.1 General 4.2 Extinguishants 4.3 Electrostatic discharge 4.4 Compatibility with other extinguishants 4.5 Temperature limitations 5 Safety 5.1 Hazard to personnel 5.2 Safety precautions 5.2.1 General 5.2.2 For normally unoccupied areas 5.2.3 For unoccupiable areas 5.3 Occupiable areas 5.4 Electrical hazards 5.5 Electrical earthing 5.6 Electrostatic discharge 6 System design 6.1 General 6.2 Extinguishant supply 6.2.1 Quantity 6.2.2 Quality
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DIN EN 15026	HYGROTHERMAL PERFORMANCE OF BUILDING COMPONENTS AND BUILDING ELEMENTS - ASSESSMENT OF MOISTURE TRANSFER BY NUMERICAL SIMULATION	1/7/2007	Defines the equations to be used in a simulation method for calculating the non steady transfer of heat and moisture through building structures. Diese Norm definiert die praktische Anwendung der Software für die wärme- und feuchtetechnische Simulation, die eingesetzt wird bei der Vorhersage der eindimensionalen transienten Wärme-, Luft- und Feuchteübertragung in Bauteilen von mehrschichtigen Gebäudehüllen, die auf beiden Seiten instationären klimatischen Bedingungen ausgesetzt sind.	Commercial Facilities	Government Facilities	Residential Facilities		Vorwort Einleitung 1 Anwendungsbereich 2 Normative Verweisungen 3 Begriffe, Symbole und Einheiten 3.1 Begriffe 3.2 Symbole und Einheiten 4 Auf die Wärme- und Feuchtetechnik bezogene Gleichungen und Baustoff- eigenschaften 4.1 Annahmen 4.2 Transport von Wärme und Feuchte 4.3 Baustoffeigen 5 Randbedingungen 5.1 Raumseitige Bedingungen 5.2 Aussenbedingungen 6 Dokumentation der Eingangsdaten und Ergebnisse 6.1 Allgemeines 6.2 Problembeschreibung 6.3 Hygrothermisches Modell und numerische Lösung 6.4 Rechenbericht Anhang A (normativ) Vergleichsbeispiel - Feuchteaufnahme in einem semi-infiniten Bereich A.1 Allgemeines A.2 Problembeschreibung A.3 Ergebnisse Anhang B (informativ) Entwicklung von Feuchte-Referenzjahren Anhang C
DIN EN 16604-10	SPACE SUSTAINABILITY - ADOPTION NOTICE OF ISO 24113: SPACE SYSTEMS - SPACE DEBRIS MITIGATION REQUIREMENTS	1/12/2013		Transportation Systems	Emergency Services			

DIN EN 1866	Mobile fire extinguishers	1/3/2006	This standard is included in DIN Handbook 346 and 346/1. Defines characteristics, ratings and classification of mobile fire extinguishers and is applicable to mobile extinguishers with a total mass in excess of 20 kg.	Emergency Services				<ul style="list-style-type: none"> 1 Scope 2 Normative references 3 Definitions 4 Description of an extinguisher 5 Effective range of operating temperatures <ul style="list-style-type: none"> 5.1 General 5.2 Requirements 6 Filling specifications <ul style="list-style-type: none"> 6.1 Nominal charges 6.2 Filling tolerances 7 Duration of operation, residual mass and discharge rate <ul style="list-style-type: none"> 7.1 Duration of operation 7.2 Maximum residual mass 7.3 Discharge rate 8 Body construction <ul style="list-style-type: none"> 8.1 General 8.2 Main closures 8.3 Design and correct manufacture of the cylinders 9 Requirements of charge <ul style="list-style-type: none"> 9.1 Retention of charge 9.2 Control valve 9.3 Working position 9.4 Hose and nozzle 9.5 Propelling agent
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DIN EN 1866-1	Mobile fire extinguishers - Part 1: Characteristics, performance and test methods; German version EN 1866-1:2007	1/1/2008	This standard is included in DIN Handbook 346/1. Describes the rules of design, type testing and inspection during manufacturing, ratings and classification of mobile fire extinguishers and test methods to be used.	Emergency Services				<p>Vorwort</p> <p>1 Anwendungsbereich</p> <p>2 Normative Verweisungen</p> <p>3 Begriffe</p> <p>4 Symbole und Abkürzungen</p> <p>5 Beschreibung eines Feuerlöschers</p> <p>5.1 Art des Feuerlöschers</p> <p>5.2 Bestandteile eines Feuerlöschers</p> <p>6 Anforderungen</p> <p>6.1 Effektiver Funktionstemperaturbereich</p> <p>6.1.1 Allgemeines</p> <p>6.1.2 Anforderungen</p> <p>6.1.3 Zusätzliche Anforderungen an CO₂-Feuerlöscher</p> <p>6.2 Anforderungen an das Füllen</p> <p>6.2.1 Nennfüllmengen</p> <p>6.2.2 Grenzabweichung für die Füllmenge</p> <p>6.2.3 Treibmittel</p> <p>6.3 Funktionsdauer, Restmenge und Wurfweite</p> <p>6.3.1 Funktionsdauer</p> <p>6.3.2 Maximale Restmenge</p> <p>6.4 Enthaltene Füllmenge</p> <p>6.4.1 Allgemeines</p> <p>6.4.2 Treibgasflasche</p>
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DIN EN 1947	FIRE-FIGHTING HOSES - SEMI-RIGID DELIVERY HOSES AND HOSE ASSEMBLIES FOR PUMPS AND VEHICLES	1/7/2007	This standard is included in DIN Handbook 243. States the requirements and test methods for semi-rigid hoses for use on fire-fighting vehicles and trailer pumps.	Emergency Services				<p>Vorwort Einleitung 1 Anwendungsbereich 2 Normative Verweisungen 3 Begriffe 4 Klassifizierung 4.1 Allgemeines 4.2 Einteilung nach Typen (Aufbau des Schlauchs) 4.3 Einteilung nach Klassen (Materialien für Innen- und Deckschicht) 4.4 Einteilung nach Kategorien 5 Masse, Grenzabweichungen und Maximalgewicht 5.1 Innendurchmesser und Maximalgewicht 5.2 Längen und Längentoleranzen 5.3 Konzentrität 6 Leistungsanforderungen an den fertig gestellten Schlauch 6.1 Hydrostatische Anforderungen 6.1.1 Verformung unter maximalem Arbeitsdruck 6.1.2 Verformung unter Prüfdruck 6.1.3 Mindestberstdruck 6.1.4 Knickdruck</p>
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DIN EN 3-7	PORTABLE FIRE EXTINGUISHERS - PART 7: CHARACTERISTICS, PERFORMANCE REQUIREMENTS AND TEST METHODS	1/10/2007	This standard is included in DIN Handbook 346 and 346/1. Describes the characteristics, performance requirements and test methods for portable fire extinguishers.	Emergency Services				<p>Vorwort</p> <p>1 Anwendungsbereich</p> <p>2 Normative Verweisungen</p> <p>3 Begriffe</p> <p>4 Allgemeines</p> <p>4.1 Beschreibung eines tragbaren Feuerlöschers</p> <p>4.2 Unterbrechungseinrichtung</p> <p>4.3 Funktionslage</p> <p>4.4 Schlauchleitungen</p> <p>4.5 Treibmittel</p> <p>4.6 Dauerdrucklöscher</p> <p>5 Prüfung von tragbaren Feuerlöschern</p> <p>6 Nennfüllmengen, zulässige Abweichungen für die Füllmenge und Mindestanforderungen an das Löschvermögen</p> <p>6.1 Nennfüllmengen</p> <p>6.2 Zulässige Abweichungen für die Füllmenge</p> <p>6.3 !Gestaltung der Einfüllöffnung, mit Ausnahme von Kohlendioxid-Feuerlöschern</p> <p>6.4 Mindestanforderungen an das Löschvermögen</p>
DIN EN 54-10	Fire detection and fire alarm systems - Part 10: Flame detectors - Point detectors	1/3/2006		Emergency Services	Commercial Facilities	Government Facilities	Residential Facilities	

DIN EN 54-11	Fire detection and fire alarm systems - Part 11: Manual call points	1/3/2006	Gives requirements and methods of test for manual call points in fire detection and fire alarm systems in and around buildings.	Emergency Services	Commercial Facilities	Government Facilities	Residential Facilities	<p>Foreword</p> <p>Introduction</p> <p>1 Scope</p> <p>2 Normative references</p> <p>3 Terms and definitions</p> <p>4 Requirements</p> <p>4.1 Compliance</p> <p>4.2 Marking and data</p> <p>4.3 Frangible element</p> <p>4.4 Indicators for alarm condition</p> <p>4.5 Reset facility</p> <p>4.6 Test facility</p> <p>4.7 Construction and design</p> <p>4.8 Additional requirements for software controlled manual call points</p> <p>5 Tests</p> <p>5.1 General</p> <p>5.2 Operational performance test</p> <p>5.3 Function test</p> <p>5.4 Test facility test (operational)</p> <p>5.5 Reliability tests (endurance)</p> <p>5.6 Variation of supply parameters</p> <p>5.7 Dry heat (operational)</p> <p>5.8 Dry heat (endurance)</p> <p>5.9 Cold (operational)</p> <p>5.10 Damp heat, cyclic (operational)</p>
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DIN EN 54-16	Fire detection and fire alarm systems - Part 16: Voice alarm control and indicating equipment; German version EN 54-16:2008	1/6/2008	Defines requirements, methods of test and performance criteria for voice alarm control and indicating equipment for use in fire detection and fire alarm systems installed in buildings, where the alarm signal is in the form of tone(s) or voice message(s), or both.	Emergency Services	Commercial Facilities	Government Facilities	Residential Facilities	<p>Vorwort</p> <p>Einleitung</p> <p>1 Anwendungsbereich</p> <p>2 Normative Verweisungen</p> <p>3 Begriffe und Abkürzungen</p> <p>3.1 Begriffe</p> <p>3.2 Abkürzungen</p> <p>4 Allgemeine Anforderungen</p> <p>4.1 Allgemeines</p> <p>4.2 Kombinierte SAZ und BMZ</p> <p>4.3 Energieversorgung</p> <p>5 Allgemeine Anforderungen für Anzeigeelemente</p> <p>5.1 Anzeige und Betriebszustände</p> <p>5.2 Anzeigen</p> <p>5.3 Anzeigen mittels alphanumerischer Displays</p> <p>5.4 Anzeige der Versorgung mit Energie</p> <p>5.5 Zusätzliche Anzeigen</p> <p>6 Betriebsbereitschaftszustand</p> <p>7 Sprachalarmzustand</p> <p>7.1 Empfang und Verarbeitung von Brandmeldungen</p> <p>7.2 Anzeige des Sprachalarmzustands</p> <p>7.3 Akustische Anzeige (Option mit</p>
DIN EN 54-17	Fire detection and fire alarm systems - Part 17: Short-circuit isolators	1/3/2006	Describes requirements, test methods and performance criteria for short-circuit isolators, for use in fire detection and fire alarm systems for buildings.	Emergency Services	Commercial Facilities	Government Facilities	Residential Facilities	<p>Foreword</p> <p>Introduction</p> <p>1 Scope</p> <p>2 Normative references</p> <p>3 Terms and definitions</p> <p>4 Requirements</p> <p>5 Tests</p> <p>Annex A (informative) Examples for the functional test procedure</p> <p>Annex B (informative) Apparatus for impact test</p> <p>Annex ZA (informative) Relationship of this European Standard with the Construction Products Directive 89/106/EEC</p> <p>Bibliography</p>

DIN EN 54-18	Fire detection and fire alarm systems - Part 18: Input/output devices	1/5/2007	Describes the requirements, test methods and performance criteria for input/output devices connected to a transmission path of a fire detection and fire alarm system, used to receive and/or transmit electrical signals to or from the transmission path, necessary for the operation of the fire detection and fire alarm system and/or fire protection system.	Emergency Services	Commercial Facilities	Government Facilities	Residential Facilities	Foreword Introduction 1 Scope 2 Normative references 3 Terms, definitions and abbreviations 3.1 Terms and definitions 3.2 Abbreviations 4 Requirements 4.1 Compliance 4.2 Monitoring of detachable devices 4.3 Marking and data 4.4 Documentation 4.5 Requirements for software controlled devices 5 Tests 5.1 General 5.2 Performance and variation in supply parameters 5.3 Dry heat (operational) 5.4 Cold (operational) 5.5 Damp heat, cyclic (operational) 5.6 Damp heat, steady state (endurance) 5.7 Sulphur dioxide (SO ₂) corrosion (endurance)
ANSI/DASMA 105	Test Method for Thermal Transmittance and Air Infiltration of Garage Doors	2004		Commercial Facilities	Government Facilities	Residential Facilities		
ANSI/DASMA 107	Room Fire Test Standard for Garage Doors Using Foam Plastic Insulation	2012		Commercial Facilities	Government Facilities	Residential Facilities		
ANSI/DASMA 108	Standard Method for Testing Sectional Garage Doors and Rolling Doors: Determination of Structural Performance Under Uniform Static Air Pressure Difference	2012		Commercial Facilities	Government Facilities	Residential Facilities		

ANSI/DASMA 115	Standard Method for Testing Sectional Garage Doors and Rolling Doors: Determination of Structural Performance Under Missile Impact and Cyclic Wind Pressure	2005		Commercial Facilities	Government Facilities	Residential Facilities		
DASMA 203	Standard for Non-Fire Rated Rolling Doors	2004		Commercial Facilities	Government Facilities	Residential Facilities		
DASMA 204	Standard for Fire Rated Rolling Door Assemblies	2004		Commercial Facilities	Government Facilities	Residential Facilities		
NEN 2077	FIXED FIREFIGHTING SYSTEMS - RESIDENTIAL SPRINKLER SYSTEMS - DESIGN, INSTALLATION AND MAINTENANCE	1/6/2013	NEN 2077 specificeert eisen en geeft aanbevelingen voor het ontwerp, de installatie en het onderhoud van vaste sprinklerinstallaties voor de woonomgeving in gebouwen, of delen van gebouwen met woonfunctie. Gebieden binnen gebouwen met een ander risico dan in de woonomgeving, worden niet door deze norm gedekt.	Commercial Facilities	Government Facilities	Residential Facilities	Emergency Services	

NEN 2991	AIR - RISK ASSESSMENT IN AND AROUND BUILDINGS OR BUILDING CONSTRUCTIONS WHICH CONTAIN ASBESTOS MATERIALS	1/3/2012	Provides guidelines for the risk assessment of exposure to asbestos for users in buildings, building constructions and empty buildings, which contain asbestos materials. Deze norm vormt een handleiding ter beoordeling van blootstellingsrisico's aan asbest voor gebruikers en derden in gebouwen, woningen, constructies, objecten en leegstaande bouwwerken waarin asbesthoudende materialen zijn verwerkt.	Commercial Facilities	Government Facilities	Residential Facilities		
NEN CWA 15931-1	DISASTER AND EMERGENCY MANAGEMENT - SHARED SITUATION AWARENESS - PART 1: MESSAGE STRUCTURE	1/4/2009	Assists organizations involved by providing a message structure for the transfer of information between computers based systems in such a way that it can be reliably decoded.	Emergency Services	Communications			
NEN CWA 15931-2	DISASTER AND EMERGENCY MANAGEMENT - SHARED SITUATION AWARENESS - PART 2: CODES FOR THE MESSAGE STRUCTURE	1/2/2009	Aims at assisting organizations involved by providing a list of codes for the message structure, and also for the transfer of information between computers based systems in such a way that it can be reliably decoded. It also provides a system of terms relating to disasters and emergencies and their encoding.	Emergency Services	Communications			

NEN EN 15315	ENERGY PERFORMANCE OF BUILDINGS - OVERALL ENERGY USE, PRIMARY ENERGY AND CO ₂ EMISSIONS	1/8/2005	Covers the following points: - collate results from other standards that specify calculation of energy consumption within a building; - account for energy generated in the building, some of which may be exported for use elsewhere; - present a summary on tabular form of the overall energy use of the building; - specify calculation of primary energy consumption and carbon dioxide emission for the building as a whole; - establish general principles for the calculation of primary energy factors and carbon dioxide emission factors.	Energy	Commercial Facilities	Government Facilities	Residential Facilities	
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NEN EN 50292	ELECTRICAL APPARATUS FOR THE DETECTION OF CARBON MONOXIDE IN DOMESTIC PREMISES, CARAVANS AND BOATS - GUIDE ON THE SELECTION, INSTALLATION, USE AND MAINTENANCE	1/9/2013	Provides guidance on the selection, installation, use and maintenance of apparatus for the detection of carbon monoxide, intended for continuous operation in a fixed installation in domestic premises, caravans and boats.	Transportation Systems	Emergency Services			<p>1 Scope 2 Normative references 3 Definitions 4 Sources of carbon monoxide 4.1 General information 4.2 Normal exposure levels 4.3 Burning of carbonaceous materials for heating and cooking 4.4 Uncontrolled burning 4.5 Tobacco smoking 4.6 Internal combustion engines 4.7 Multi-occupancy and multi-storey buildings 5 Installation 5.1 General 5.2 Location of the carbon monoxide detector 5.3 Types of apparatus 6 Executive functions (type A apparatus only) 6.1 General 6.2 Shut-off valve 6.3 Ventilation fan 6.4 Main electrical switch 6.5 Remote alarm 6.6 Additional visual alarm 6.7 Link between detector and ancillary device 7 Advice to the user 7.1 Manufacturer's instructions 7.2 Location 7.3 Power supply 7.4 Indicators 7.5 Alarms 7.6 Maintenance 7.7 Lifetimes 8 Emergency actions Annex A (informative) Health effects A.1 Toxic effects A.2 Chronic effects on</p>
ANSI/EIMA 99A	Exterior Insulation and Finished Systems (EIFS)	2001		Commercial Facilities	Government Facilities	Residential Facilities		

EMAP	Emergency Management Standard	2013	<p>The Emergency Management Standard by the Emergency Management Accreditation Program (EMAP) is designed as a tool for continuous improvement as part of a voluntary accreditation process for emergency management programs. EMAP makes no representation or guarantee as to the efficacy of any program as a result of use of or compliance with the standards contained herein. EMAP makes no guaranty or warranty as to the completeness of information in this document, and EMAP expressly disclaims liability for any personal injury or damages of any nature resulting from the publication, use of, or reliance on this document.</p>	Emergency Services				
ENA ET ETR 138	RESILIENCE TO FLOODING OF GRID AND PRIMARY SUBSTATIONS	2009	<p>Specifies the risk management of floods at grid and primary substations in England, Scotland and Wales due to coastal, river, surface water and groundwater flooding. However, information on surface water and ground water flooding requires further development before the principles outlined in this ETR can be applied.</p>	Water and Wastewater Systems				

EN 15331	CRITERIA FOR DESIGN, MANAGEMENT AND CONTROL OF MAINTENANCE SERVICES FOR BUILDINGS	1/8/2011	Defines the criteria and the general methods that can be used in the planning, management and control of maintenance in buildings and their surrounding area according to the applicable legal requirements, objectives of the owners and users and the required quality of maintenance.	Commercial Facilities	Government Facilities	Residential Facilities		<p>Foreword</p> <p>Introduction</p> <p>1 Scope</p> <p>2 Normative references</p> <p>3 Terms and definitions</p> <p>4 Basic data and requirements</p> <p>5 Building and maintenance strategy</p> <p>6 Maintenance plan</p> <p>7 Information systems</p> <p>8 Operational management of maintenance services</p> <p>9 Monitoring</p> <p>10 Feedback data</p> <p>Annex A (informative) - Building classification as per Eurostat "Classification of Types of Construction" (CC) (1996)</p> <p>Annex B (informative) - Example of the formulation and inclusion into budget of a maintenance plan</p> <p>Annex C (informative) - Outline of the Reliability Centred Maintenance method</p> <p>Bibliography</p>
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EN 16495

AIR TRAFFIC MANAGEMENT -
INFORMATION SECURITY FOR
ORGANISATIONS
SUPPORTING CIVIL AVIATION
OPERATIONS

1/1/2014

Specifies guidelines and
general principles for the
implementation of an
information security
management system in
organisations supporting civil
aviation operations.

Transportation Systems

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in aviation 5 Security policy 6
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Level of Trust - Implementation
Example Bibliography

EN 206-1	CONCRETE - PART 1: SPECIFICATION, PERFORMANCE, PRODUCTION AND CONFORMITY	1/6/2005	Pertains to concrete for structures cast in situ, precast structures, and structural precast products for buildings and civil engineering structures.	Commercial Facilities	Government Facilities	Residential Facilities		Foreword Introduction 1 Scope 2 Normative references 3 Definitions, symbols and abbreviations 3.1 Terms and definitions 3.2 Symbols and abbreviations 4 Classification 4.1 Exposure classes related to environmental actions 4.2 Fresh concrete 4.2.1 Consistence classes 4.2.2 Classes related to maximum aggregate size 4.3 Hardened concrete 4.3.1 Compressive strength classes 4.3.2 Density classes for light-weight concrete 5 Requirements for concrete and methods of verification 5.1 Basic requirements for constituent materials 5.1.1 General 5.1.2 Cement 5.1.3 Aggregates 5.1.4 Mixing water
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EN 31010	RISK MANAGEMENT - RISK ASSESSMENT TECHNIQUES (IEC/ISO 31010:2009)	1/5/2010	Gives guidance on selection and application of systematic techniques for risk assessment.					<p>FOREWORD</p> <p>INTRODUCTION</p> <p>1 Scope</p> <p>2 Normative references</p> <p>3 Terms and definitions</p> <p>4 Risk assessment concepts</p> <p>5 Risk assessment process</p> <p>6 Selection of risk assessment techniques</p> <p>Annex A (informative) - Comparison of risk assessment techniques</p> <p>Annex B (informative) - Risk assessment techniques</p> <p>Bibliography</p> <p>Annex ZA (normative) - Normative references to international publications with their corresponding European publications</p>
TR 102 485	ELECTROMAGNETIC COMPATIBILITY AND RADIO SPECTRUM MATTERS (ERM); TECHNICAL CHARACTERISTICS FOR BROADBAND DISASTER RELIEF APPLICATIONS (BB-DR) FOR EMERGENCY SERVICES IN DISASTER SITUATIONS; SYSTEM REFERENCE DOCUMENT	20/07/2006	Specifies the requirements for radio frequency usage for broadband disaster relief applications around 5 GHz.	communications	Information Technology	Emergency Services		

TR99.00.01	Security Technologies for Manufacturing and Control Systems	29/10/2007	Provides a current assessment of various cyber security tools, mitigation counter-measures, and technologies that may effectively apply to the modern electronically based IACSs regulating and monitoring numerous industries and critical infrastructures.	Information Technology				Foreword Introduction 1 Scope 2 Purpose 3 General Terms and Definitions 3.1 Definitions 3.2 Acronyms 3.3 Sources for Definitions and Abbreviations 4 Overview 5 Authentication and Authorization Technologies 5.1 Role-Based Authorization Tools 5.2 Password Authentication 5.3 Challenge/Response Authentication 5.4 Physical/Token Authentication 5.5 Smart Card Authentication 5.6 Biometric Authentication 5.7 Location-Based Authentication 5.8 Password Distribution and Management Technologies 5.9 Device-to-Device Authentication 6 Filtering/Blocking/Access Control Technologies 6.1 Network Firewalls 6.2 Host-based Firewalls
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TS 170 001	PROJECT MESA; SERVICE SPECIFICATION GROUP - SERVICES AND APPLICATIONS; STATEMENT OF REQUIREMENTS (SOR)	27/03/2008	Specifies the basis for a functional and technical specification and standards platform that can be installed as either a private system owned by government or a governmental/commercial partnership that provides priority service to public safety agencies and possibly secondary service to other commercial clients.	Commercial Facilities	Government Facilities			Intellectual Property Rights Foreword Introduction 1 Scope 2 References 2.1 Normative references 2.2 Informative references 3 Abbreviations 4 Executive Summary 5 Project MESA SoR 5.1 Objectives 5.2 Scope of requirements 5.3 User requirements 5.4 Use of existing protocols 5.5 Evolving specifications and standards 5.6 Use of open architectures 5.7 Mobile computer telecommunications system 5.8 Local, regional and national interoperability 5.9 Interoperability between MESA user devices 5.10 In building and portable service 5.11 Operational compromises 5.12 Compliant with the need of the participating nations 5.13 Pre-testing technology proposals 5.13a Type approval and interoperability testing 5.14 Frequency neutral technology 5.15 Improvements in spectrum efficiencies 5.16 Life-cycle
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FM 1011,1012,1013	DELUGE AND PREACTION SPRINKLER SYSTEMS	1/9/2009	Describes the design and performance requirements for 1-1/2, 2, 2-1/2, 3, 4, 6 and 8 inch nominal pipe size (NPS) Deluge and Preaction Sprinkler Systems for use in automatic sprinkler systems. Other sizes may be evaluated on a case-by-case basis.	Water and Wastewater Systems	Commercial Facilities	Residential Facilities	Government Facilities	1. INTRODUCTION 1.1 PURPOSE 1.2 SCOPE 1.3 BASIS FOR REQUIREMENTS 1.4 BASIS FOR APPROVAL 1.5 BASIS FOR CONTINUED APPROVAL 1.6 EFFECTIVE DATE 1.7 SYSTEM OF UNITS 1.8 APPLICABLE DOCUMENTS 1.9 DEFINITIONS 2. GENERAL INFORMATION 2.1 PRODUCT INFORMATION 2.2 APPROVAL APPLICATION REQUIREMENTS 2.3 REQUIREMENTS FOR SAMPLES FOR EXAMINATION 3. GENERAL REQUIREMENTS 3.1 REVIEW OF DOCUMENTATION 3.2 DELUGE SPRINKLER SYSTEMS - APPROVAL STANDARD CLASS 1011 3.3 PREACTION SPRINKLER SYSTEMS - APPROVAL STANDARD CLASS 1012/1013 3.4 SOLENOID VALVES USED IN ELECTRIC RELEASE SYSTEMS 3.5 DEVICES TO PREVENT DELUGE AND PREACTION SYSTEMS FROM RESETTING AUTOMATICALLY AFTER INITIAL TRIP 3.6 RELEASE CONTROL PANELS FOR PREACTION
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FM 1020	AUTOMATIC WATER CONTROL VALVES	1/4/2007	Provides guidelines reflecting current FM Approval tests and practices.	Water and Wastewater Systems	Commercial Facilities	Government Facilities	Residential Facilities	1.0 INTRODUCTION 1.1 Purpose 1.2 Scope 1.3 Basis for Requirements 1.4 Basis for Approval 1.5 Basis for Continued Approval 1.7 System of Units 1.8 Applicable Documents 1.9 Definitions 2.0 GENERAL INFORMATION 2.1 Product Information 2.2 Types 2.2.1 Clapper Type 2.2.2 Diaphragm Type 2.2.3 Summary 2.3 Approval Application Requirements 2.4 Requirements for Samples for Examination 3.0 GENERAL REQUIREMENTS 3.1 Review of Documentation 3.2 Physical or Structural Features 3.3 Design Requirements 3.4 Operation 3.5 Markings 3.6 Materials and Construction 3.7 Environment 3.8 Serviceability and Parts Removal 3.9 Instructions and Trim Equipment 3.10 Clearances 3.11 Calibration 3.12 Tolerances 4.0 PERFORMANCE REQUIREMENTS 4.1 Examination 4.2 Operational Tests 4.3 Friction Loss 4.4
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FM 1041	ALARM CHECK VALVES	1/2/2006	Comprehends the design and performance requirements for differential and pilot valve type alarm check valves. These valves are installed in wet sprinkler systems in either the vertical or horizontal orientation.	Commercial Facilities	Government Facilities	Residential Facilities	Emergency Services	1 INTRODUCTION 1.1 Purpose 1.2 Scope 1.3 Basis for Requirements 1.4 Basis for Approval 1.5 Basis for Continued Approval 1.6 Effective Date 1.7 System of Units 1.8 Applicable Documents 1.9 Definitions 2 GENERAL INFORMATION 2.1 Product Information 2.2 Approval Application Requirements 2.3 Requirements for Samples for Examination 3 GENERAL REQUIREMENTS 3.1 Review of Documentation 3.2 Physical or Structural Features 3.3 Clearances 3.4 Materials 3.5 Markings 3.6 Manufacturer's Installation and Operation Instructions 3.7 Calibration 4 PERFORMANCE REQUIREMENTS 4.1 Examination 4.2 Clapper Strength 4.3 Resilient Seat (Reverse Flow) Leakage 4.4 Metal-To-Metal Seat Leakage 4.5 Hydrostatic Strength - Alarm Check Valve 4.6 Hydrostatic Strength - Trim Piping 4.7 Friction Loss Determination 4.8 Cycle Test 4.9
FM 1042	WATERFLOW ALARM INDICATORS (VANE TYPE)	1/7/1970		Water and Wastewater Systems	Commercial Facilities	Government Facilities	Residential Facilities	I. SCOPE II. GLOSSARY A. Vane B. Body C. Instantly Recycling Retard D. Instantly Recycling Retard 1. Location 2. Performance III. REQUIREMENTS A. Performance B. Friction Loss C. Vane Assembly E. Rated Working Pressure F. Assembly G. Wiring Diagrams H. Enclosure IV. MATERIALS V. MARKING APPENDIX - APPROVAL MARKS

FM 1044	FIRE SERVICE METERS	1/8/2012	Defines the design and performance requirements for fire service meters intended for use where full registration metering devices on public water connections are required.	Water and Wastewater Systems	Emergency Services			1. INTRODUCTION 2. GENERAL INFORMATION 3. GENERAL REQUIREMENTS 4. PERFORMANCE REQUIREMENTS 5. OPERATIONS REQUIREMENTS APPENDIX A - UNITS OF MEASUREMENT APPENDIX B - FM APPROVALS CERTIFICATION MARKS APPENDIX C - SAMPLE LISTINGS APPENDIX D - TOLERANCE
FM 1046	FIRE PUMP FLOWMETER SYSTEMS	1/1/1987		Water and Wastewater Systems	Emergency Services			I. INTRODUCTION 1.1 Purpose 1.2 Scope 1.3 Basis for FM Approval 1.4 Basis for Continued Approval 1.5 Requirements 1.6 Effective Date 1.7 System of Units II. GENERAL INFORMATION 2.1 Product Information III. GLOSSARY IV. GENERAL REQUIREMENTS (OTHER THAN PERFORMANCE REQUIREMENTS) 4.1 Minimum Meter Size 4.2 Flow Measurement Device 4.3 Markings 4.4 Instructions 4.5 Physical or Structural Features 4.6 Drawings/Plans/Specifications Required 4.7 Other Requirements V. PERFORMANCE REQUIREMENTS 5.1 Operation and Accuracy 5.2 Hydrostatic Strength 5.3 Friction Loss Determination VI. MANUFACTURING AND FIELD INSTALLATION REQUIREMENTS 6.1 Demonstrated Quality Control Program 6.2 Facilities and Procedures Audit (F&PA) APPENDIX A: APPROVAL MARKS APPENDIX B:

FM 1221	BACKFLOW PREVENTERS (REDUCED PRESSURE PRINCIPLE AND DOUBLE CHECK VALVE TYPES)	1/2/1987		Water and Wastewater Systems	Emergency Services			I. INTRODUCTION 1.1 Purpose 1.2 Scope 1.3 Basis for FM Approval 1.4 Continued Approval is Based Upon 1.5 Requirements 1.6 Effective Date 1.7 Units of Measurements II. GENERAL INFORMATION 2.1 Product Information 2.2 Sizes III. GENERAL REQUIREMENTS (Other than performance Requirements) 3.1 Preliminary Information 3.2 End Connections 3.3 Clearances 3.4 Friction Loss 3.5 Materials 3.6 Markings IV. PERFORMANCE REQUIREMENTS 4.1 Clapper Strength 4.2 Body Strength 4.3 Diaphragm Strength 4.4 Friction Loss 4.5 Other Tests V. MANUFACTURING AND FIELD INSTALLATION REQUIREMENTS 5.1 Demonstrated QC Program 5.2 Facilities and Procedures Audit (F&PA) APPENDIX A: UNITS OF MEASUREMENT APPENDIX B: APPROVAL MARKS
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FM 1311	CENTRIFUGAL FIRE PUMPS SPLIT-CASE TYPE (AXIAL OR RADIAL)	1/8/2007	Comprehends the design and performance requirements for horizontal (axial) or vertical (radial), split-case type, centrifugal fire pumps for use in fire protection systems.	Water and Wastewater Systems	Emergency Services			1 INTRODUCTION 1.1 Purpose 1.2 Scope 1.3 Basis for Requirements 1.4 Basis for Approval 1.5 Basis for Continued Approval 1.6 Effective Date 1.7 System of Units 1.8 Applicable Documents 1.9 Definitions 2 GENERAL INFORMATION 2.1 Product Information 2.2 Approval Application Requirements 2.3 Requirements for Samples for Examination 3 GENERAL REQUIREMENTS 3.1 Review of Documentation 3.2 Physical or Structural Features 3.2.1 Pump 3.2.2 Pump Package 3.2.3 Pump Casing 3.2.4 Water Passages 3.2.5 Impeller 3.2.6 Shaft 3.2.7 Shaft Seals 3.2.8 Bearings 3.2.9 Coupling 3.2.10 Baseplate (Vertically Mounted Pumps Only) 3.2.11 Circulation Relief Valve 3.3 Materials 3.4 Markings 3.5 Manufacturer's Installation and Operation Instructions 3.6 Calibration 3.7 Tolerances 4
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FM 1312	CENTRIFUGAL FIRE PUMPS (VERTICAL-SHAFT, TURBINE TYPE)	1/12/1999		Water and Wastewater Systems	Emergency Services			<p>1 INTRODUCTION 1.1 Purpose 1.2 Scope 1.3 Basis for Requirements 1.4 Basis for FM Approval 1.5 Basis for Continued Approval 1.6 Effective Date 1.7 System of Units 1.8 Applicable Documents 1.9 Definitions 2 GENERAL INFORMATION 2.1 Product Information 2.2 Approval Application Requirements 2.3 Requirements for Samples for Examination 3 GENERAL REQUIREMENTS 3.1 Review of Documentation 3.2 Physical or Structural Features 3.3 Materials 3.4 Markings 3.5 Manufacturer's Installation and Operation Instructions 3.6 Calibration 4 PERFORMANCE REQUIREMENTS 4.1 Performance 4.2 Flange and Gasket Tightness 4.3 Hydrostatic Strength 4.4 Test Procedure 4.5 Additional Tests 5 OPERATIONS REQUIREMENTS 5.1 Demonstrated Quality Control Program 5.2 Facilities and Procedures Audit (F&PA) 5.3 Manufacturer's</p>
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FM 1313	POSITIVE DISPLACEMENT FIRE PUMPS (ROTARY GEAR TYPE)	1/11/2007	Presents the design and performance requirements for rotary gear type, positive displacement fire pumps for use in fire protection systems. Approval is limited to such pumps which have a rated pressure of a minimum of 40 psi (2.75 bar).	Water and Wastewater Systems	Emergency Services			1 INTRODUCTION 1.1 Purpose 1.2 Scope 1.3 Basis for Requirements 1.4 Basis for Approval 1.5 Basis for Continued Approval 1.6 Effective Date 1.7 System of Units 1.8 Applicable Documents 1.9 Definitions 2 GENERAL INFORMATION 2.1 Product Information 2.2 Approval Application Requirements 2.3 Requirements for Samples for Examination 3 GENERAL REQUIREMENTS 3.1 Review of Documentation 3.2 Physical or Structural Features 3.2.1 Pump Assemblies 3.2.2 Pump System Components 3.2.3 Pump Housing 3.2.4 Liquid Passages 3.2.5 Rotors 3.2.6 Shaft 3.2.7 Shaft Seals 3.2.8 Bearings 3.2.9 Baseplate 3.3 Materials 3.4 Markings 3.5 Manufacturer's Installation and Operation Instructions 3.6 Calibration 4 PERFORMANCE REQUIREMENTS 4.1 Hydraulic Performance Tests 4.2 Dry Operation and Self-Priming
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FM 1319	CENTRIFUGAL FIRE PUMPS (HORIZONTAL, END SUCTION TYPE)	1/10/2008	Describes the design and performance requirements for horizontal, end suction type, centrifugal fire pumps for use in fire protection systems.	Water and Wastewater Systems	Emergency Services			1 INTRODUCTION 1.1 Purpose 1.2 Scope 1.3 Basis for Requirements 1.4 Basis for FM Approval 1.5 Basis for Continued Approval 1.6 Effective Date 1.7 System of Units 1.8 Applicable Documents 1.9 Definitions 2 GENERAL INFORMATION 2.1 Product Information 2.2 Approval Application Requirements 2.3 Requirements for Samples for Examination 3 GENERAL REQUIREMENTS 3.1 Review of Documentation 3.2 Physical or Structural Features 3.2.1 Pump 3.2.2 Pump Package 3.2.3 Pump Casing 3.2.4 Water Passages 3.2.5 Impeller 3.2.6 Shaft 3.2.7 Shaft Seals 3.2.8 Bearings 3.2.9 Coupling 3.2.10 Circulation Relief Valve 3.2.11 Miscellaneous components 3.3 Materials 3.4 Markings 3.5 Manufacturer's Installation and Operation Instructions 3.6 Calibration 3.7 Tolerances 4 PERFORMANCE REQUIREMENTS
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FM 1510	FIRE HYDRANTS (WET BARREL TYPE) FOR PRIVATE FIRE SERVICE	1/11/1990		Water and Wastewater Systems	Emergency Services			<p>I. INTRODUCTION 1.1 Purpose 1.2 Scope 1.3 Basis for FM Approval 1.4 Basis for Continued Approval 1.5 Basis for Requirements 1.6 Effective Date 1.7 System of Units II. GENERAL INFORMATION 2.1 Physical/Structural 2.2 Markings 2.3 Rated Working Pressure 2.4 Drawings/Plans/Specifications Required 2.5 Manufacturer's Requirements III. PERFORMANCE REQUIREMENTS - APPROVAL TESTS 3.1 Shell Strength 3.2 Seat Leakage 3.3 Hose Outlet Strength 3.4 Stem Strength 3.5 Head Loss 3.6 Traffic Hydrant 3.7 Other Tests IV. OPERATIONS REQUIREMENTS 4.1 Demonstrated Quality Control Program 4.2 Facilities and Procedures Audit (F&PA) APPENDIX A: APPROVAL MARKS APPENDIX B: UNITS OF MEASUREMENT</p>
FM 1530	FIRE DEPARTMENT CONNECTIONS	1/8/1970		Water and Wastewater Systems	Emergency Services			<p>INTRODUCTION DESIGN A. Rated Working Pressure B. Inlets and Outlet C. Body D. Clapper(s) E. Materials F. Clearance G. Seat Ring H. Hose Plugs FACTORY TESTS MARKING</p>
FM 1531	WALL HYDRANTS	1/5/1977		Water and Wastewater Systems	Emergency Services			<p>I. INTRODUCTION II. PERFORMANCE REQUIREMENT III. GENERAL REQUIREMENTS 3.1 Strength 3.2 Construction 3.2.1 Connections 3.2.2 Body 3.2.3 Materials 3.2.4 Hose Outlet Caps IV. MARKINGS V. TESTS 5.1 Hydrostatic 5.2 Other</p>

FM 1950	SEISMIC SWAY BRACES FOR PIPE, TUBING AND CONDUIT	1/9/2013	Describes the design and performance requirements for seismic sway bracing components used to brace pipe, tubing and conduit.	Water and Wastewater Systems	Energy	Emergency Services		1. INTRODUCTION 2. GENERAL INFORMATION 3. GENERAL REQUIREMENTS 4. PERFORMANCE REQUIREMENTS 5. OPERATIONS REQUIREMENTS APPENDIX A - UNITS OF MEASUREMENT APPENDIX B - FM APPROVALS CERTIFICATION MARKS APPENDIX C - SAMPLE LISTINGS APPENDIX D - TOLERANCES
FM 1951,52,53	PIPE HANGER COMPONENTS FOR AUTOMATIC SPRINKLER SYSTEMS	1/9/2003		Water and Wastewater Systems	Commercial Facilities	Government Facilities	Residential Facilities	I. INTRODUCTION 1.1 Purpose 1.2 Scope 1.3 Basis for Requirements 1.4 Basis for FM Approval 1.5 Basis for Continued Approval 1.6 Effective Date 1.7 System of Units 1.8 Applicable Documents 1.9 Definitions II. GENERAL INFORMATION 2.1 Product Information 2.2 Approval Application Requirements 2.3 Requirements for Sample for Examination III. GENERAL REQUIREMENTS 3.1 Review of Documentation 3.2 Physical or Structural Features 3.3 Design Requirements 3.4 Materials 3.5 Markings 3.6 Manufacturer's Installation and Operation Instructions 3.7 Calibration IV. PERFORMANCE REQUIREMENTS 4.1 Examination 4.2 Tensile Tests 4.3 Coating Evaluation 4.4 Mechanical Locking 4.5 Additional Tests V. OPERATIONS REQUIREMENTS 5.1 Demonstrated Quality Control

FM 1956	EXPLOSIVE DRIVEN FASTENERS	1/7/1970		Commercial Facilities	Government Facilities	Residential Facilities	Emergency Services	I. INTRODUCTION II. GENERAL PERFORMANCE III. Fastener-Coupling Combinations Anti-Swaying Features Fastener Material Coupling Installation Instructions IV. TESTS Fastener in Vertical Position Fastener in Horizontal Position V. MARKINGS
FM 2000	AUTOMATIC CONTROL MODE SPRINKLERS FOR FIRE PROTECTION	1/3/2006	Describes FM Approvals criteria for automatic control mode sprinklers for fire protection service.	Water and Wastewater Systems	Emergency Services	Commercial Facilities	Government Facilities	1 INTRODUCTION 1.1 PURPOSE 1.2 SCOPE 1.3 BASIS FOR REQUIREMENTS 1.4 BASIS FOR APPROVAL 1.5 BASIS FOR CONTINUED APPROVAL 1.6 EFFECTIVE DATE 1.7 SYSTEM OF UNITS 1.8 APPLICABLE DOCUMENTS 1.9 DEFINITIONS 1.10 REFERENCES 2 GENERAL INFORMATION 2.1 PRODUCT INFORMATION 2.2 APPROVAL APPLICATION REQUIREMENTS 2.3 REQUIREMENTS FOR SAMPLES FOR EXAMINATION 3 GENERAL REQUIREMENTS 3.1 REVIEW OF DOCUMENTATION 3.2 PHYSICAL OR STRUCTURAL FEATURES 3.3 MATERIALS 3.4 MARKINGS 3.5 MANUFACTURER'S INSTALLATION AND OPERATION INSTRUCTIONS 3.6 CALIBRATION 4 PERFORMANCE REQUIREMENTS 4.1 EXAMINATION 4.2 ASSEMBLY LOAD/FRAME STRENGTH 4.3 STRENGTH OF HEAT RESPONSIVE ELEMENT 4.4 LEAKAGE 4.5 HYDROSTATIC STRENGTH 4.6 30-

FM 2008	SUPPRESSION MODE [EARLY SUPPRESSION - FAST RESPONSE (ESFR)] AUTOMATIC SPRINKLERS	1/10/2006	Explains the design requirements, performance requirements, methods of test, and marking requirements for fusible element and glass bulb suppression mode sprinklers.	Water and Wastewater Systems	Emergency Services	Commercial Facilities	Government Facilities	1 INTRODUCTION 1.1 PURPOSE 1.2 SCOPE 1.3 BASIS FOR REQUIREMENTS 1.4 BASIS FOR APPROVAL 1.5 BASIS FOR CONTINUED APPROVAL 1.6 EFFECTIVE DATE 1.7 SYSTEM OF UNITS 1.8 APPLICABLE DOCUMENTS 1.9 DEFINITIONS 1.10 REFERENCES 2 GENERAL INFORMATION 2.1 PRODUCT INFORMATION 2.2 APPROVAL APPLICATION REQUIREMENTS 2.3 REQUIREMENTS FOR SAMPLES FOR EXAMINATION 3 GENERAL REQUIREMENTS 3.1 REVIEW OF DOCUMENTATION 3.2 PHYSICAL OR STRUCTURAL FEATURES 3.3 MATERIALS 3.4 MARKINGS 3.5 MANUFACTURER'S INSTALLATION AND OPERATION INSTRUCTIONS 3.6 CALIBRATION 4 PERFORMANCE REQUIREMENTS TEST PRESSURES 4.1 EXAMINATION 4.2 ASSEMBLY LOAD/FRAME STRENGTH 4.3 STRENGTH OF HEAT RESPONSIVE ELEMENT 4.4 LEAKAGE 4.5 HYDROSTATIC STRENGTH 4.6 30-
FM 2030	RESIDENTIAL AUTOMATIC SPRINKLERS FOR FIRE PROTECTION	1/8/2009	Describes performance requirements for automatic residential sprinklers in class number 2030.	Water and Wastewater Systems	Emergency Services	Residential Facilities		1. INTRODUCTION 2. GENERAL INFORMATION 3. GENERAL REQUIREMENTS 4. PERFORMANCE REQUIREMENTS 5. OPERATIONS REQUIREMENTS APPENDIX A: UNITS OF MEASUREMENT APPENDIX B: TOLERANCES APPENDIX C: FM APPROVALS CERTIFICATION MARKS APPENDIX D: TOLERANCE LIMIT CALCULATIONS APPENDIX E: FIGURES APPENDIX F: SAMPLE LISTING

FM 2031	HEAT RESPONSIVE LINKS FOR FIRE PROTECTION	1/7/2001		Emergency Services	Commercial Facilities	Government Facilities	Residential Facilities	I. INTRODUCTION 1.1 Purpose 1.2 Scope 1.3 Basis for Requirements 1.4 Basis for FM Approval 1.5 Basis for Continued Approval 1.6 Effective Date 1.7 System of Units 1.8 Applicable Documents 1.9 Definitions II. GENERAL INFORMATION 2.1 Product Information 2.2 Approval Application Requirements 2.3 Requirements for Samples for Examination III. GENERAL REQUIREMENTS 3.1 Review of Documentation 3.2 Physical or Structural Features 3.3 Materials 3.4 Markings 3.5 Manufacturer's Installation and Operation Instructions 3.6 Calibration IV. PERFORMANCE REQUIREMENTS 4.1 Examination 4.2 Assembly Load/Frame Strength 4.3 Strength of Heat Responsive Element 4.4 Operating Temperature (Liquid Bath) 4.5 High Ambient Temperature Exposure (90 Day Test) 4.6
FM 2141	HOSE RACKS AND REELS FOR LINED LIGHTWEIGHT AND UNLINED FIRE HOSE	1/9/1970		Water and Wastewater Systems	Emergency Services			I. INTRODUCTION II. DESIGN III. TESTS Loading and Removal Strength and Abuse IV. WORKMANSHIP V. MARKING
FM 2151	HOSE HOUSES AND OUTDOOR HOSE CABINETS	1/9/1970		Water and Wastewater Systems	Emergency Services			I. GENERAL II. DESIGN III. EXAMINATION 1. Strength 2. Durability 3. Practicality 4. Tightness IV. MARKING

FM 2510	FLOOD ABATEMENT EQUIPMENT	1/3/2013	Covers the design and performance requirements for flood abatement equipment for use in controlling riverine or rainfall related flood conditions.	Water and Wastewater Systems	Emergency Services			1. INTRODUCTION 2. GENERAL INFORMATION 3. GENERAL REQUIREMENTS 4. PERFORMANCE REQUIREMENTS 5. OPERATIONS REQUIREMENTS APPENDIX A - Units of Measurement APPENDIX B - Tolerances APPENDIX C - FM Approvals Certification Marks APPENDIX D - USACE Coastal and Hydraulics Laboratory Test Facility Description
FM 3010	FIRE ALARM SIGNALING SYSTEMS	1/12/2010	Offers a guideline for typical tests that are required by FM Approvals. Also provides the operating basis for alarm signaling.	Emergency Services	Commercial Facilities	Government Facilities	Residential Facilities	1 INTRODUCTION 2 GENERAL INFORMATION 3 GENERAL REQUIREMENTS 4 PERFORMANCE REQUIREMENTS 5 OPERATIONS REQUIREMENTS APPENDIX A: UNITS OF MEASUREMENT APPENDIX B: FM APPROVALS CERTIFICATION MARKS

FM 3011	CENTRAL STATION SERVICE FOR FIRE ALARMS AND PROTECTIVE EQUIPMENT SUPERVISION	1/4/1999		Emergency Services	Commercial Facilities	Government Facilities		1.0 INTRODUCTION 1.1 Purpose 1.2 Scope 1.3 Basis for Approval 1.4 Basis for Continued Approval 1.5 Approval Application Requirements 1.6 Contract(s) and Prime Contractor 1.7 FM Approved Facilities Used for Central Station Standard Service 1.8 Travel Time for Runners and Service Personnel 1.9 Equipment Not Covered by FM Approval 1.10 Systems of Units 1.11 Applicable Documents 1.12 Definitions 1.13 Effective Date 2.0 FACILITIES 2.1 General 2.2 Flooding 2.3 Repeater Station 2.4 Secondary Power Supply 2.5 Fire Alarm Systems 3.0 SUPERVISING STATION, SUBSIDIARY STATION AND REPEATER STATION FIRE ALARM SIGNALING EQUIPMENT 3.1 Supervising Station Fire Alarm System Equipment 3.2 Computerized Signal Processing Equipment and Software 3.3 Signal Identification 3.4 Spare Equipment 3.5 Communication
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FM 3150	AUDIBLE NOTIFICATION APPLIANCES FOR AUTOMATIC FIRE ALARM SIGNALING	1/11/2003	Describes performance requirements for electrically powered bells and horns to sound an alarm in the event of fire or other abnormal condition for the protection of occupants, building space, structure, area, or object.	Emergency Services	Communications			1 INTRODUCTION 1.1 Purpose 1.2 Scope 1.3 Basis for Requirements 1.4 Basis for FM Approval 1.5 Basis for Continued Approval 1.6 Effective Date 1.7 System of Units 1.8 Applicable Documents 2 GENERAL INFORMATION 2.1 Product Information 2.2 Approval Application Requirements 2.3 Requirements for Samples for Examination 3 GENERAL REQUIREMENTS 3.1 Review of Documentation 3.2 Physical or Structural Features 3.3 Markings 3.4 Manufacturer's Installation and Operation Instructions 3.5 Calibration 4 PERFORMANCE REQUIREMENTS 4.1 Audible Characteristics 4.2 Voltage Range 4.3 Continued Operation 4.4 Temperature Extremes 4.5 Vibration 4.6 Dielectric Strength 4.7 Bonding 4.8 Surge Transient Tests 4.9 Enclosure Requirements (including Plastic housings) 5 OPERATIONS REQUIREMENTS 5.1
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FM 3210	HEAT DETECTORS FOR AUTOMATIC FIRE ALARM SIGNALING	1/4/2007	Pertains to heat detectors intended for use in fire alarm signaling or extinguishing system applications that operate via the transfer of convected heat energy.	Emergency Services				1 INTRODUCTION 1.1 Purpose 1.2 Scope 1.3 Basis for Requirements 1.4 Basis for Approval 1.5 Basis for Continued Approval 1.6 Effective Date 1.7 System of Units 1.8 Applicable Documents 1.9 Definitions 1.10 References 2 GENERAL INFORMATION 2.1 Product Information 2.2 Approval Application Requirements 2.3 Requirements for Samples for Examination 3 GENERAL REQUIREMENTS 3.1 Review of Documentation 3.2 Physical or Structural Features 3.3 Markings 3.4 Manufacturer's Installation and Operation Instructions 3.5 Calibration 4 PERFORMANCE REQUIREMENTS 4.1 Storage Temperature Pre-Conditioning 4.2 Elevated Ambient Temperature Test (Oven Test) 4.3 Humidity Tests 4.4 Set-Point Accuracy (Oven Tests) - Fixed and Rate Compensated Devices 4.5 Set-Point Accuracy (Oven Tests) - Rate-of-Rise Devices
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FM 3230	SMOKE ACTUATED DETECTORS FOR AUTOMATIC ALARM SIGNALING	1/1/2010	Describes any spot type smoke and beam type detector intended to be employed in indoor locations.	Emergency Services	Commercial Facilities	Government Facilities	Residential Facilities	1. INTRODUCTION 2. GENERAL INFORMATION 3. GENERAL REQUIREMENTS 4. PERFORMANCE REQUIREMENTS 5. OPERATIONS REQUIREMENTS APPENDIX A: UNITS OF MEASUREMENT APPENDIX B: FM APPROVALS CERTIFICATION MARKS APPENDIX C: SMOKE ROOM ASPIRATING PIPE INSTALLATION APPENDIX D: DUCT ASPIRATING PIPE INSTALL APPENDIX E: POLYURETHANE FOAM SMOKE GENERATION APPENDIX F: RED OAK SMOKE GENERATION APPENDIX G: COTTON WICK SMOKE GENERATION (PARAFIN OIL SMOKE MAY BE SUBSTITUTED) APPENDIX H: APPARATUS FOR ASPIRATING DETECTOR SENSITIVITY MEASUREMENTS
FM 3232	VIDEO IMAGE FIRE DETECTORS FOR AUTOMATIC FIRE ALARM SIGNALING	1/12/2011	Specifies performance requirements for Video Image Fire Detectors (VIFD), and Video Image Fire Detection Systems (VIFDS) for Automatic Fire Alarm Signaling for the protection of occupants, building space, structure, area, or object and designed to detect products of combustion in a specific location.	Emergency Services	Commercial Facilities	Government Facilities	Residential Facilities	1. INTRODUCTION 2. GENERAL INFORMATION 3. GENERAL REQUIREMENTS 4. PERFORMANCE REQUIREMENTS 5. OPERATIONS REQUIREMENTS APPENDIX A - UNITS OF MEASUREMENT APPENDIX B - FM APPROVALS CERTIFICATION MARKS
FM 3260	RADIANT ENERGY-SENSING FIRE DETECTORS FOR AUTOMATIC FIRE ALARM SIGNALING	6/2/2014	Describes performance requirements for radiant energy-sensing fire detectors used for automatic fire alarm signaling for the protection of occupants, building space, structure, area, or object.	Emergency Services	Commercial Facilities	Government Facilities	Residential Facilities	1 INTRODUCTION 2 GENERAL INFORMATION 3 GENERAL REQUIREMENTS 4 PERFORMANCE REQUIREMENTS 5 MANUFACTURING AND PRODUCTION TESTS APPENDIX - UNITS OF MEASUREMENT

FM 3615	EXPLOSIONPROOF ELECTRICAL EQUIPMENT GENERAL REQUIREMENTS	1/8/2006	Presents the basic requirements for the construction and testing of explosionproof electrical equipment. This standard is intended to be used in conjunction with Approval Standard 3600 which includes the general requirements that apply to all types of hazardous (classified) location protection methods.	Emergency Services	Commercial Facilities	Government Facilities	Residential Facilities	I INTRODUCTION 1.1 Purpose 1.2 Scope 1.3 Basis for Approval 1.4 Basis for Continued Approval 1.5 Basis for Requirements 1.6 Effective Date 1.7 System of Units II DEFINITIONS III GENERAL REQUIREMENTS (OTHER THAN PERFORMANCE REQUIREMENTS) 3.1 Marking Information 3.2 Required Documentation for Approval Examination 3.3 Construction Requirements IV PERFORMANCE TESTS AND EVALUATION 4.1 General 4.2 Conduit Opening Torque Test 4.3 Standard Ignition Tests 4.4 Flame Propagation Tests 4.5 Hydrostatic Tests 4.6 Impact Test 4.7 Flammability Test V OPERATIONS REQUIREMENTS VI REFERENCES ANNEX A: Units of Measurement ANNEX B: Group D - Minimum Widths/Maximum Gaps ANNEX C: Group D - Minimum Widths/Maximum Gaps ANNEX D: Group C - Minimum Widths/Maximum Gaps ANNEX E:
FM 3616	DUST-IGNITIONPROOF ELECTRICAL EQUIPMENT - GENERAL REQUIREMENTS	1/12/2011	Provides the basic requirements for the construction and testing of dust-ignitionproof electrical equipment.	Emergency Services	Commercial Facilities	Government Facilities	Residential Facilities	1 INTRODUCTION 2 GENERAL INFORMATION 3 GENERAL REQUIREMENTS 4 CONSTRUCTION REQUIREMENTS 5 PERFORMANCE REQUIREMENTS APPENDIX A - Units of Measurement

FM 3620	PURGED AND PRESSURIZED ELECTRICAL EQUIPMENT FOR HAZARDOUS (CLASSIFIED) LOCATIONS	1/8/2000		Emergency Services	Commercial Facilities	Government Facilities		I. INTRODUCTION 1.1 Purpose 1.2 Scope 1.3 Basis for FM Approval 1.4 Basis for Continued Approval 1.5 Basis for Requirements 1.6 Effective Date 1.7 System of Units II. DEFINITIONS III. GENERAL INFORMATION 3.1 Marking Information 3.2 Required Documentation for Approval Examination IV. PERFORMANCE AND CONSTRUCTION REQUIREMENTS 4.1 Applicability of Other Standards 4.2 Clarification of ANSI/NFPA 496 Requirements V. OPERATIONS REQUIREMENTS VI. REFERENCES APPENDIX - APPROVAL MARKS
FM 3640	LAND MOBILE RADIOS FOR USE IN CLASS I, DIVISION 1 HAZARDOUS (CLASSIFIED) LOCATIONS	1/6/2013	Describes the particular requirements for construction, test and marking for Land Mobile Radio (LMR) equipment and accessories for use in Class I, Division 1, locations as defined by the national Electrical Code, ANSI/NFPA 70.	communications	Government Facilities	Commercial Facilities		1 INTRODUCTION 2 GENERAL INFORMATION 3 REQUIREMENTS 4 OPERATIONS REQUIREMENTS APPENDIX A - UNITS OF MEASUREMENT APPENDIX B - FM APPROVALS CERTIFICATION MARKS

FM 4020	STEEL TANKS FOR FIRE PROTECTION	1/5/2011	Helps to measure and assess the ability of ground supported, flat bottom steel suction tanks to provide a highly reliable source of water for fire protection at anticipated rates and duration in emergency situations.	Water and Wastewater Systems	Emergency Services			1 INTRODUCTION 2 GENERAL INFORMATION 3 GENERAL REQUIREMENTS 4 PERFORMANCE REQUIREMENTS AND VERIFICATION 5 OPERATIONS REQUIREMENTS APPENDIX A: UNITS OF MEASUREMENTS APPENDIX B: FM APPROVALS CERTIFICATION MARKS APPENDIX C: RAFTER DESIGN GUIDELINES APPENDIX D: DESIGN OF FOUNDATION BOLTS USING A SHEAR CONE ANALYSIS APPENDIX E: SEISMIC ANALYSIS OF FM APPROVED SUCTION TANKS APPENDIX F: ROOF LOADS IN SUCTION TANKS WITH INSUFFICIENT FREEBOARD
FM 4100	FIRE DOORS	1/10/1988		Commercial Facilities	Government Facilities	Residential Facilities		I. INTRODUCTION 1.1 Purpose 1.2 Scope 1.3 Basis for FM Approval 1.4 Basis for Continued Approval 1.5 Basis for Requirements 1.6 Effective Date 1.7 System of Units II. GENERAL INFORMATION 2.1 Fire Door Assemblies 2.2 Operation III. APPLICABLE DOCUMENTS AND GLOSSARY 3.1 Applicable Documents 3.2 Glossary IV. GENERAL REQUIREMENTS 4.1 Markings 4.2 Installation 4.3 Design Reviews 4.4 Fire Protection Ratings 4.5 Oversized Doors 4.6 Special Provisions 4.7 Frames 4.8 Hardware 4.9 Re-Examination V. PERFORMANCE REQUIREMENTS 5.1 Fire Test 5.2 Cycling Tests 5.3 Durability Test 5.4 Panic Loading Test VI. OPERATIONS REQUIREMENTS 6.1 Demonstrated QC Program 6.2 Facilities and Procedure Audit (F&PA) APPENDIX A: UNITS OF MEASUREMENT APPENDIX B: FM Approval Identification Labelling and

FM 4121	FIRE AND SMOKE DOOR HOLDER AND/OR RELEASE DEVICES	1/4/2013	Provides the performance requirements for fire and smoke door holder and/or release devices.	Commercial Facilities	Government Facilities	Residential Facilities		1 INTRODUCTION 2 GENERAL INFORMATION 3 GENERAL REQUIREMENTS 4 PERFORMANCE REQUIREMENTS 5 OPERATIONS REQUIREMENTS APPENDIX A - Units of Measurement APPENDIX B - FM APPROVALS CERTIFICATION MARKS
FM 4350	WINDSTORM RESISTANT FENESTRATIONS	1/9/2006	Presents Approval requirements for Windstorm Resistant Fenestrations such as doors, windows, storm shutters and impact resistant film and other materials.	Commercial Facilities	Government Facilities	Residential Facilities		1 INTRODUCTION 1.1 Purpose 1.2 Scope 1.3 Basis for Requirements 1.4 Basis for Approval 1.5 Basis for Continued Approval 1.6 Effective Date 1.7 System of Units 1.8 Applicable Documents 1.9 Definitions 2 GENERAL INFORMATION 2.1 Product Information 2.2 Approval Application Requirements 2.3 Requirements for Samples for Examination 2.4 Approval Categories and Ratings 2.5 Hail Resistance Ratings 3 GENERAL REQUIREMENTS 3.1 Review of Documentation 3.2 Physical or Structural Features 3.3 Markings 3.4 Manufacturer's Installation Instructions 3.5 Calibration 4 PERFORMANCE REQUIREMENTS 4.1 Simulated Wind Load Rating 4.2 Windborne Debris Ratings 4.3 Hail Resistance Ratings 5 OPERATIONS REQUIREMENTS 5.1 Demonstrated Quality Control Program 5.2 Facilities and Procedures Audit (F&PA) 5.3

FM 4411	INSULATED WALL CONSTRUCTIONS	1/9/1974		Commercial Facilities	Government Facilities	Residential Facilities		<p>I. INTRODUCTION II. DESCRIPTION OF HAZARDS 2.10 Vertical Fire Spread in the Core 2.20 Heat Contribution 2.30 Horizontal Flame Spread on Exposed Insulation 2.40 Susceptibility to Radiant Heat Damage III. TEST PROCEDURES 3.10 Vertical Fire Spread-Core 3.20 Heat Contribution 3.30 Horizontal Flame Spread-Exposed Insulation 3.40 Susceptibility to Radiant Heat Damage IV. MARKING V. FACILITIES AND PROCEDURES INSPECTION VI. RE-EXAMINATION VII. MANUFACTURER'S RESPONSIBILITY APPENDIX A: TEST PROCEDURE FOR FIRE HAZARD CLASSIFICATION OPERATING PRINCIPLE OF TEST FURNACE I Fire Test Furnace II Test Sample III Calibration of Test Equipment IV Fire Test Procedure V Test Results VI Classification APPENDIX B: TEST PROCEDURE SUSCEPTIBILITY TO HEAT DAMAGE I Description of Test Apparatus II Test Procedure - Wall Insulations III Evaluation of</p>
FM 4430	HEAT AND SMOKE VENTS	1/5/2012	Describes the performance requirements for heat and smoke vents under simulated laboratory conditions. They shall be examined for their ability to remain in place until such time as sprinklers would have been expected to operate so as not to adversely affect the sprinkler operation.	Commercial Facilities	Government Facilities	Residential Facilities		<p>1 INTRODUCTION 2 GENERAL INFORMATION 3 GENERAL REQUIREMENTS 4 PERFORMANCE REQUIREMENTS 5 OPERATIONS REQUIREMENTS APPENDIX A - UNITS OF MEASUREMENT APPENDIX B - FM APPROVALS CERTIFICATION MARKS</p>

FM 4431	SKYLIGHTS	1/9/2006	Approval requirements for skylights. In some jurisdictions, skylights are referred to as roof lights. For purposes of this standard, skylights and roof lights shall be considered as the same product and shall be referred to as skylights.	Commercial Facilities	Government Facilities	Residential Facilities	<p>1 INTRODUCTION 1.1 Purpose 1.2 Scope 1.3 Basis for Requirements 1.4 Basis for Approval 1.5 Basis for Continued Approval 1.6 Effective Date 1.7 System of Units 1.8 Applicable Documents 1.9 Definitions 2 GENERAL INFORMATION 2.1 Product Information 2.2 Approval Application Requirements 2.3 Requirements for Samples for Examination 3 GENERAL REQUIREMENTS 3.1 General Information 3.2 Tests and Ratings 3.3 Markings 3.4 Manufacturer's Installation Instructions 3.5 Calibration 4 PERFORMANCE REQUIREMENTS 4.1 Spread of Flame Test for Skylights from an Exterior Ignition Source 4.2 Simulated Hail Resistance Test Using Freezer Ice Balls 4.3 Simulated Impact Test for Skylights 4.4 Simulated Wind Uplift Resistance for Skylights 4.5 Windborne Debris Ratings 5 OPERATIONS REQUIREMENTS 5.1 Demonstrated</p>
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FM 4922	FUME EXHAUST DUCTS OR FUME AND SMOKE EXHAUST DUCTS	1/4/2001		Commercial Facilities	Government Facilities	Residential Facilities	<p>1 INTRODUCTION 1.1 Purpose 1.2 Scope 1.3 Basis for FM Approval 1.4 Basis for Continued Approval 1.5 Basis for Requirements 1.6 Effective Date 1.7 System of Units 2 GENERAL INFORMATION 2.1 Product Information 2.2 Requirements 3 APPLICABLE DOCUMENTS 4 GENERAL REQUIREMENTS 4.1 Markings 4.2 Installation Instructions 4.3 Drawings/Plans/Specifications 4.4 Other Requirements 5 PERFORMANCE REQUIREMENTS 5.1 Fume Exhaust Ducts 5.2 Fume and Smoke Exhaust Ducts 5.3 Small Scale Quality Control Tests 5.4 Cleanroom Materials 6 OPERATIONS REQUIREMENTS 6.1 Demonstrated Quality Control Program 6.2 Facilities and Procedures Audit (F&PA) APPENDIX A: APPROVAL MARKS APPENDIX B: UNITS OF MEASUREMENT APPENDIX C: Horizontal Fire Test Procedure for Fume or Fume</p>
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FM 4990	FIRESTOPPING	1/12/2009	Describes the performance requirements for firestopping under simulated laboratory conditions. Also describes the performance requirements for firestopping used to seal joints, voids, gaps or other discontinuities between or bounded by adjacent supporting elements such as walls, floors and at the head of walls against the spread of flame and their capability of accommodating anticipated building movements.	Commercial Facilities	Government Facilities	Residential Facilities	Emergency Services	1. INTRODUCTION 2. GENERAL INFORMATION 3. GENERAL REQUIREMENTS 4. PERFORMANCE REQUIREMENTS 5. OPERATIONS REQUIREMENTS APPENDIX A: UNITS OF MEASUREMENT APPENDIX B: FM APPROVALS CERTIFICATION MARKS APPENDIX C: FURTHER EXPLANATION AND EXAMPLES OF ALTERNATE FIRE TESTS APPENDIX D: GUIDANCE ON THERMOCOUPLE PLACEMENT APPENDIX E: GUIDANCE ON THE HOSE STREAM TEST
FM 5130	FOAM EXTINGUISHING SYSTEMS	1/8/2011	Describes requirements for fixed fire extinguishing systems that use an aqueous foam as the extinguishant.	Emergency Services	Commercial Facilities	Government Facilities	Residential Facilities	1 INTRODUCTION 2 GENERAL INFORMATION 3 GENERAL REQUIREMENTS 4 PERFORMANCE REQUIREMENTS 5 OPERATIONS REQUIREMENTS APPENDIX A: UNITS OF MEASUREMENT APPENDIX B: FM APPROVALS CERTIFICATION MARKS APPENDIX C: COMPONENT EXAMINATION GUIDE APPENDIX D: FIGURES APPENDIX E: LOW EXPANSION FOAM FIRE TEST CONFIGURATIONS APPENDIX F: LOW EXPANSION FOAM FIRE TEST CHRONOLOGY APPENDIX G: CONDUCTIVITY TEST PROCEDURE APPENDIX H: UNITED STATES COAST GUARD REQUIREMENTS APPENDIX I: ALTERNATE FOAM QUALITY TEST PROCEDURE APPENDIX J: VISCOSITY TEST PROCEDURE APPENDIX K: LISTING INFORMATION

FM 5320	DRY CHEMICAL EXTINGUISHING SYSTEMS	1/12/2013	Defines requirements for fixed fire extinguishing systems which use dry chemical as the primary means of extinguishant.	Emergency Services	Commercial Facilities	Government Facilities	Residential Facilities	1. INTRODUCTION 2. GENERAL INFORMATION 3. GENERAL REQUIREMENTS 4. PERFORMANCE REQUIREMENTS 5. OPERATIONS REQUIREMENTS APPENDIX A - Units of Measurement APPENDIX B - Tolerances APPENDIX C - FM Approvals Certification Marks APPENDIX D - Tolerance Limit Calculations APPENDIX E - Sample Approval Guide Listings
FM 5420	CARBON DIOXIDE EXTINGUISHING SYSTEMS	1/4/2007	Specifies requirements for fixed fire extinguishing systems which use carbon dioxide (CO ₂) as the extinguishant.	Emergency Services	Commercial Facilities	Government Facilities	Residential Facilities	1 INTRODUCTION 1.1 Purpose 1.2 Scope 1.3 Basis for Requirements 1.4 Basis for Approval 1.5 Basis for Continued Approval 1.6 Effective Date 1.7 System of Units 1.8 Applicable Documents 1.9 Definitions 2 GENERAL INFORMATION 2.1 Approval Application Requirements 2.2 Requirements for Samples for Examination 3 GENERAL REQUIREMENTS 3.1 Review of Documentation 3.2 Physical or Structural Construction Features 3.2.1 Operating Range 3.2.2 Materials 3.2.3 Control 3.2.4 Strength 3.2.5 Pressure Vessels 3.2.6 Discharge Valves 3.2.7 Siphon Tubes 3.2.8 Pressure Relief Devices 3.2.9 Discharge Heads and Connectors 3.2.10 Manifolds and Piping 3.2.11 Cylinder Supports 3.2.12 Protective Covering 3.2.13 Actuation Devices or Control Heads 3.2.14 Auxiliary Manual Controls 3.2.15 Selector and Lockout Valves
FM 5551	STRAINERS FOR USE WITH WATER SPRAY SYSTEMS	1/1/1980		Water and Wastewater Systems	Commercial Facilities	Government Facilities	Residential Facilities	1.0 INTRODUCTION 2.0 PERFORMANCE 2.1 Sizes 2.2 Rated Working Pressure 2.3 Filter 2.4 Flushing Outlet 2.5 Tests 3.0 MARKINGS

FM 5560	WATER MIST SYSTEMS	1/11/2012	Describes the design and performance requirements for water mist systems for use as fire control and/or extinguishing systems designed and installed per FM Global Property Loss Prevention Data Sheets.	Water and Wastewater Systems	Commercial Facilities	Government Facilities	Residential Facilities	1 INTRODUCTION 2 GENERAL INFORMATION 3 GENERAL REQUIREMENTS 4 PERFORMANCE REQUIREMENTS 5 OPERATIONS REQUIREMENTS FIRE PERFORMANCE TESTING REQUIREMENTS APPENDIX A - FIRE TESTS FOR WATER MIST SYSTEMS FOR THE PROTECTION OF MACHINERY IN ENCLOSURES WITH VOLUMES NOT EXCEEDING 2825 FT3 (80 M3) APPENDIX B - FIRE TESTS FOR WATER MIST SYSTEMS FOR THE PROTECTION OF COMBUSTION TURBINES IN ENCLOSURES WITH VOLUMES NOT EXCEEDING 2825 FT3 (80 M3) APPENDIX C - FIRE TESTS FOR WATER MIST SYSTEMS FOR THE PROTECTION OF MACHINERY IN ENCLOSURES WITH VOLUMES NOT EXCEEDING 9175 FT3 (260 M3) APPENDIX D - FIRE TESTS FOR WATER MIST SYSTEMS FOR THE THE PROTECTION OF COMBUSTION TURBINES IN ENCLOSURES
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FM 5580	HYBRID (WATER AND INERT GAS) FIRE EXTINGUISHING SYSTEMS	1/11/2012	Describes the design and performance requirements for hybrid fire extinguishing systems for use as fire control and/or extinguishing systems designed and installed per FM Global Property Loss Prevention Data Sheets.	Water and Wastewater Systems	Commercial Facilities	Government Facilities	Residential Facilities	1 INTRODUCTION 2 GENERAL INFORMATION 3 GENERAL REQUIREMENTS 4 PERFORMANCE REQUIREMENTS 5 OPERATIONS REQUIREMENTS FIRE PERFORMANCE TESTING REQUIREMENTS APPENDIX A - HYBRID FIRE EXTINGUISHING SYSTEM CLASSIFICATION APPENDIX B - FIRE TESTS FOR HYBRID FIRE EXTINGUISHING SYSTEMS FOR THE PROTECTION OF MACHINERY IN APPENDIX C - FIRE TESTS FOR HYBRID FIRE EXTINGUISHING SYSTEMS FOR THE PROTECTION OF COMBUSTION TURBINES APPENDIX D - FIRE TESTS FOR HYBRID FIRE EXTINGUISHING SYSTEMS FOR THE PROTECTION OF MACHINERY IN ENCLOSURES WITH VOLUMES NOT EXCEEDING 9175 FT3 (260 M3) APPENDIX E - FIRE TESTS FOR HYBRID FIRE EXTINGUISHING SYSTEMS FOR THE PROTECTION OF COMBUSTION
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FM 5600	CLEAN AGENT EXTINGUISHING SYSTEMS	1/4/2013	Takes requirements for vaporizing liquid and inert gas clean agent extinguishing systems for total flooding protection.	Water and Wastewater Systems	Commercial Facilities	Government Facilities		1. INTRODUCTION 2. GENERAL INFORMATION 3. GENERAL REQUIREMENTS 4. PERFORMANCE REQUIREMENTS 5. OPERATIONS REQUIREMENTS APPENDIX A - UNITS OF MEASUREMENT APPENDIX B - TOLERANCES APPENDIX C - FM APPROVALS CERTIFICATION MARKS APPENDIX D - TOLERANCE LIMIT CALCULATIONS APPENDIX E - FIGURES APPENDIX F - SAMPLE APPROVAL GUIDE LISTINGS APPENDIX G - A METHOD OF TESTING THE EFFECTIVENESS OF CLEAN AGENTS IN SUPPRESSING CABLE FIRES IGNITED BY A SUSTAINED ELECTRICAL ARC
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FM 5700	EXPLOSION SUPPRESSION SYSTEMS	1/10/1999		Emergency Services	Commercial Facilities	Government Facilities	Residential Facilities	I. INTRODUCTION 1.1 Purpose 1.2 Scope 1.3 Basis for Requirements 1.4 Basis for FM Approval 1.5 Basis for Continued Approval 1.6 Effective Date 1.7 System of Units 1.8 Approval Application Requirements 1.9 Reference Documents II. DEFINITIONS 2.1 Combustion 2.2 Deflagration 2.3 Detonation 2.4 Explosion 2.5 Deflagration Parameters III. GENERAL INFORMATION 3.1 Application 3.2 Approval Categories 3.3 Limitations IV. GENERAL REQUIREMENTS 4.1 Markings 4.2 Drawings, Plans and Specifications 4.3 Instructions 4.4 Operational, Physical and Structural Features V. EXAMINATION AND TESTS 5.1 System 5.2 System Components VI. OPERATIONS REQUIREMENTS 6.1 Demonstrated Quality Control Program 6.2 Facilities and Procedures Audit (F&PA) APPENDIX A: UNITS OF MEASUREMENT
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FM 6310,20	COMBUSTIBLE GAS DETECTORS	1/1/2001		Emergency Services	Commercial Facilities	Government Facilities	Residential Facilities	I. INTRODUCTION 1.1 Purpose 1.2 Scope 1.3 Basis for Requirements 1.4 Basis for FM Approval 1.5 Basis for Continued Approval 1.6 Effective Date 1.7 System of Units 1.8 Applicable Standards 1.9 Definitions II. GENERAL REQUIREMENTS 2.1 Review of Documentation 2.2 Markings 2.3 Manufacturer's Installation and Operation Manuals 2.4 Construction and Functions 2.5 Test Equipment Calibration III. PERFORMANCE REQUIREMENTS 3.1 General 3.2 Samples and Sequence 3.3 Preparation of instrument 3.4 Conditions for test and test area 3.5 Selectable gas/range instruments 3.6 Un- powered preconditioning storage 3.7 Drop test 3.8 Vibration 3.9 Calibration 3.10 Accuracy 3.11 Temperature 3.12 Step change response 3.13 Humidity variation 3.14 Air velocity variation 3.15 Supply voltage
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FM 7610	COMBUSTION SAFEGUARDS AND FLAME SENSING SYSTEMS	1/6/1997		Emergency Services	Commercial Facilities	Government Facilities	Residential Facilities	1. INTRODUCTION 1.1 Purpose 1.2 Scope 1.3 Basis for Requirements 1.4 Basis for FM Approval 1.5 Basis for Continued Approval 1.6 Effective Date 1.7 System of Units 1.8 Applicable Documents 2. GENERAL INFORMATION 2.1 Approval Application Requirements 3. GENERAL REQUIREMENTS 3.1 Drawings/Plans/Specifications 3.2 Physical, Structural and Operational Requirements 3.3 Markings 3.4 Manufacturer's Operation Instructions 3.5 Calibration 4. PERFORMANCE REQUIREMENTS 4.1 Examination of Sample(s) 4.2 Operating Characteristics - Combustion Safeguards 4.3 Operating Characteristics - Flame Sensing Systems 4.4 Timings 4.5 Durability 4.6 Voltage Variation 4.7 Electrical Insulation 4.8 Ambient Temperature Effects 4.9 Safety Related Operating Characteristics 5. OPERATIONS REQUIREMENTS 5.1
FM 7730	EXPLOSION VENTING DEVICES	1/4/2014	Defines requirements for devices used to protect vessels by venting internal pressure caused by deflagration arising from the rapid burning of suspended dust in the protected volume.	Emergency Services	Commercial Facilities	Government Facilities	Residential Facilities	1. INTRODUCTION 2. GENERAL INFORMATION 3. GENERAL REQUIREMENTS 4. PERFORMANCE REQUIREMENTS 5. OPERATIONS REQUIREMENTS APPENDIX A - Units of Measurement APPENDIX B - Tolerances APPENDIX C - FM Approvals Certification Marks
FM 7745	HYDROCARBON LEAK DETECTORS	1/10/2012	Pertains to leak detectors for use in detecting specific hydrocarbon liquids on the surface of water or pooling on a flat surface.	Emergency Services	Commercial Facilities	Government Facilities		1. INTRODUCTION 2. GENERAL INFORMATION 3. GENERAL REQUIREMENTS 4. PERFORMANCE REQUIREMENTS 5. OPERATIONS REQUIREMENTS APPENDIX A - UNITS OF MEASUREMENT APPENDIX B - FM APPROVALS CERTIFICATION MARKS

FAA AC 00-59	INTEGRATING HELICOPTER AND TILTROTOR ASSETS INTO DISASTER RELIEF PLANNING	13/11/1998	Gives general guidance on integrating helicopters and tiltrotor aircraft into disaster relief planning efforts.	Emergency Services	Transportation Systems			<p>CHAPTER 1 INTRODUCTION</p> <p>1 Background</p> <p>2 The Need for Planning</p> <p>3 The Use of Helicopters and Tiltrotors in Disaster Relief</p> <p>4 Advisory Circular Goals</p> <p>5 Assumptions</p> <p>6 Potential Helicopter and Tiltrotor Missions</p> <p>Supporting Disaster Relief Efforts</p> <p>7 Operational Priorities</p> <p>8-19 Reserved</p> <p>CHAPTER 2 PLAN PREPARATION</p> <p>20 Planning Assumptions</p> <p>21 Basics</p> <p>22 Alert Levels</p> <p>23 Special Response Procedures</p> <p>24 Planning Versus Integration</p> <p>25-29 Reserved</p> <p>CHAPTER 3 RESOURCE INVENTORY</p> <p>30 Introduction</p> <p>31 Identify and Survey Helicopter and Tiltrotor Operators</p> <p>32 Resource Survey</p> <p>33 Conducting the Survey</p>
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FAA AC 25.981-2	FUEL TANK FLAMMABILITY REDUCTION MEANS	19/09/2008	Describes information and guidance on compliance with the airworthiness standards for transport category airplanes about limiting the time a fuel tank may be flammable or mitigation of hazards from flammable fuel air mixtures within fuel tanks.	Energy	Transportation Systems	Emergency Services		1. Purpose 2. Applicability 3. Cancellation 4. Related Documents 5. Definitions 6. Regulatory Background 7. Current Requirements 8. Compliance Demonstration 9. General Considerations - Fuel Tank Flammability 10. Determining Fuel Tank Flammability 11. Flammability Reduction Means 12. Ignition Mitigation Means (IMM) APPENDIX 1 - LIST OF SECTION 26.33(a) AFFECTED MODELS/FAA OVERSIGHT OFFICES APPENDIX 2 - DEVELOPING CRITICAL DESIGN CONFIGURATION CONTROL LIMITATIONS - FUEL TANK FLAMMABILITY APPENDIX 3 - COMPLIANCE WITH PART 26, SUBPART D, SECTIONS 26.33 AND 26.35 APPENDIX 4 - CONSIDERATIONS FOR FUEL TANK THERMAL MODELS
A 0082	Low Volume Air Samplers and Methods for Measuring Mass Concentration of Airborne Dust by the Low Volume Air Samplers	1993		Commercial Facilities	Government Facilities	Residential Facilities		

A A 20332	Water, drinking, emergency	13/5/2014	Specifies emergency drinking water, packed in commercially acceptable containers, suitable for use by Federal, State, local governments, and other interested parties; and as a component of operational rations.	Water and Wastewater Systems				1. SCOPE 2. PURCHASER NOTES 3. CLASSIFICATION 4. MANUFACTURER'S/DISTRIBUTOR'S NOTES 5. SALIENT CHARACTERISTICS 6. ANALYTICAL REQUIREMENTS 7. MANUFACTURER'S/DISTRIBUTOR'S PRODUCT ASSURANCE 8. REGULATORY REQUIREMENTS 9. QUALITY ASSURANCE PROVISIONS 10. PACKAGING 11. GOVERNMENT INSPECTION NOTES 12. REFERENCE NOTES
LC 91-15752	Groundwater Residue Sampling Design	1991		Water and Wastewater Systems				
M 9110	Water Quality-Sampling (Guidance on the Design of Sampling Programs)	1996		Water and Wastewater Systems				
M 9114	Water Quality-Sampling (Guidance on Sampling of Drinking Water and Water Used for Food and Beverage Processing)	1996		Water and Wastewater Systems				
M 9733	Soil Quality - Vocabulary - Part 2: Terms and Definitions Relating to Sampling	1999		Food and Agriculture				
MOM1PE	Wastewater Sampling for Process and Quality Control	1980		Water and Wastewater Systems				
MS27267	Shell, electrical connector - ramp power, 416/240 volts	21/2/2013		Defense Industrial Base				
ANSI/GRHC/SPRI VR-1	Procedure for Investigating Resistance to Root Penetration on Vegetative Roofs	2011		Commercial Facilities	Government Facilities	Residential Facilities		

IEEE 1451.0	Common Functions, Communication Protocols and TEDS format	21/9/2007	Describes the basic functions required to control and manage smart transducers, common communications protocols, and media-independent TEDS formats.	Information Technology				<ul style="list-style-type: none"> 1 Overview 1.1 Scope 1.2 Purpose 1.3 Conformance 2 Normative references 3 Definitions, acronyms, and abbreviations 3.1 Definitions 3.2 Acronyms and abbreviations 4 Data types 4.1 Unsigned octet integer 4.2 Unsigned 16 bit integer 4.3 Signed 32 bit integer 4.4 Unsigned 32 bit integer 4.5 Single-precision real 4.6 Double-precision real 4.7 String 4.8 Boolean 4.9 IEEE1451Dot0::Args::TimeRepresentation 4.10 Data types for associated applications 4.11 Physical Units 4.12 Universal unique identification 4.13 Arbitrary octet array 4.14 String array
IEEE 1512	COMMON INCIDENT MANAGEMENT MESSAGE SETS FOR USE BY EMERGENCY MANAGEMENT CENTERS	11/8/2006	Describes the exchange of vital data about public safety and emergency management issues involved in transportation-related events, through common incident management message sets.	communications	Emergency Services			<ul style="list-style-type: none"> 1 Overview 2 Normative references 3 Definitions, acronyms, and abbreviations 4 Structure of the standard 5 Dialogs 6 Message sets 7 Data frames 8 Data elements 9 External data entries 10 Deprecated entries Annex A (informative) Introduction Annex B (normative) The ASN.1 of this standard Annex C (normative) The XML schemas of this standard Annex D (informative) Bibliography

IEEE 1512.1	COMMON TRAFFIC INCIDENT MANAGEMENT MESSAGE SETS FOR USE BY EMERGENCY MANAGEMENT CENTERS	2/11/2006	Describes messages, data frames, and data elements to describe an incident and form the message infrastructure for communication involved in real-time interagency transportation related incident management.	Transportation Systems	Emergency Services	communications	<p>1 Overview 1.1 Scope 1.2 Purpose 2 Normative references 3 Definitions, acronyms, and abbreviations 3.1 Definitions 3.2 Acronyms and abbreviations 4 Structure of the standard 4.1 Requirements 4.2 Request and share information about work zones 4.3 Request local traffic control 4.4 Describe local traffic control plan 4.5 Share information about ingress/egress routes and request route services 4.6 Share location/priority/preemption information on a response vehicle 4.7 Information on cleanup or infrastructure repair: the need for it and plans 4.8 Request information on network conditions or route status 4.9 Share information on asset management 5 Dialog patterns of the standard 6 Message sets 6.1 Message: MSG_Assigned-Resources [IM] 6.2 Message: MSG_ClearOrRepairPlan [IM] 6.3 Message: MSG_DSRC-MsgSend [IM] 6.4 Message:</p>
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IEEE 1512.3	HAZARDOUS MATERIAL INCIDENT MANAGEMENT MESSAGE SETS FOR USE BY EMERGENCY MANAGEMENT CENTERS	7/7/2006	Describes messages, data frames, and data elements for communicating general and cargo information to other responders in support of real-time interagency transportation related incident management. It addresses the unique disciplines associated with communications dealing with the control and confinement of hazardous materials during and after an incident.	Transportation Systems	Emergency Services	communications	<p>1 Overview 1.1 Scope 1.2 Purpose 2 Normative references 3 Definitions, acronyms, and abbreviations 3.1 Definitions 3.2 Acronyms and abbreviations 4 Structure of the standard 4.1 The problem and functions 4.2 The resulting requirements, at a general level 4.3 The resulting requirements, at a more specific level 4.4 The resulting requirements, as bases for message sets and data frames 5 Dialog patterns of the standard 6 Message sets 6.1 Message: MSG_RequestForExternalInformation 7 Data frames 7.1 Data frame: DF_IDX_CargoDocs 7.2 Data frame: DF_IDX_CargoUnits 7.3 Data frame: DF_IDX_CargoVehicle 7.4 Data frame: DF_IDX_Hazardous_Materials_Incident_Report 7.5 Data frame: DF_IDX_MaterialRelease 7.6 Data frame: DF_IDX_Placards-Labels-Signage 7.7 Data frame: DF_ComVehicleHeader 7.8 Data</p>
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IEEE 338	IEEE Standard Criteria for the Periodic Surveillance Testing of Nuclear Power Generating Station Safety Systems	1987	Presents criteria for the performance of periodic testing of nuclear power generating station safety systems.					<ol style="list-style-type: none"> 1. Overview 2. Normative references 3. Definitions 4. System design requirements for testing 5. Testing program requirements Annex A (informative) - Bibliography Annex B (informative) - General overview of risk-informed surveillance testing Annex C (informative) - Evaluation process for surveillance test changes Annex D (informative) - Programmatic approach to risk-informed surveillance test interval management
IEEE 379	IEEE Standard Application of the Single-Failure Criterion to Nuclear Power Generating Station Safety Systems	2000	Defines the application of the single-failure criterion to the electrical power, instrumentation, and control portions of nuclear power generating station safety systems.	Nuclear Reactors, Materials, and Waste	Emergency Services			<ol style="list-style-type: none"> 1 Overview 2 Normative references 3 Definitions, acronyms, abbreviations, and terms 4 Statement of the single-failure criterion 5 Requirements 6 Design analysis for single failure Annex A (informative) - Bibliography Annex B (informative) - Examples of nondetectable failures
IEEE 577	Standard Requirements for Reliability Analysis in the Design and Operation of Safety Systems for Nuclear Facilities	19/10/2012	Establishes the minimum, acceptable requirements for the performance of reliability analyses for safety systems when used to address the reliability considerations discussed in industry standards and guidelines.	Nuclear Reactors, Materials, and Waste				<ol style="list-style-type: none"> 1. Overview 2. Normative references 3. Definitions 4. Requirements Annex A (informative) - Bibliography

IEEE 605	GUIDE FOR BUS DESIGN IN AIR-INSULATED SUBSTATIONS	14/5/2010	Pertains to both rigid bus and strain bus designs for outdoor and indoor, air-insulated, alternating current substations.	Transportation Systems				<ul style="list-style-type: none"> 1 Overview 2 Normative references 3 Definitions 4 Bus arrangements 5 Bus Design Considerations 6 Conductors 7 Design procedure 8 Ampacity 9 Corona and Radio Interference 10 Overview of mechanical design of bus structures 11 Loads on bus structure 12 Dimensional, strength and other design considerations Annex A (informative) - Bibliography Annex B (informative) - Rigid bus connector ampacity Annex C (informative) - Thermal considerations for outdus bus-conductor design Annex D (informative) - Corona and substation bus design Annex E (informative) - Physical properties of common bus conductors Annex F (informative) - Calculation
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IEEE 691	GUIDE FOR TRANSMISSION STRUCTURE FOUNDATION DESIGN AND TESTING	26/12/2001	Deals with structural loadings, subsurface investigations and the design of spread footing type foundations, drilled shafts, piles, anchors and load tests.	Commercial Facilities	Government Facilities	Residential Facilities	<ul style="list-style-type: none"> 1 Overview 1.1 Scope 1.2 System design considerations 1.3 Other considerations 2 Loading and performance criteria 2.1 Loading 2.2 Foundation performance criteria and structure types 3 Subsurface investigation and selection of geotechnical design parameters 3.1 General 3.2 Phases of investigation 3.3 Types of boring samples 3.4 Soil and rock classification 3.5 Engineering properties 4 Design of spread foundations 4.1 Structural applications 4.2 Analysis 4.3 Traditional design methods 4.4 Construction considerations 4.5 General foundation considerations 5 Design of drilled shaft and direct embedment foundations 5.1 Types of foundations 5.2 Structural applications
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IEEE 692	IEEE Standard Criteria for Security Systems for Nuclear Power Generating Stations	1997	Gives criteria for the design, testing, and maintenance of security system equipment for nuclear power generating stations. Such equipment includes permanently or temporarily installed systems, subsystems, and components used by the security force for physical protection of the station against security threats. It contains equipment for security-related detection, assessment, surveillance, access control, communication, and data acquisition.	Nuclear Reactors, Materials, and Waste	Emergency Services			<ol style="list-style-type: none"> 1. Overview 2. Normative references 3. Definitions 4. Integrated security system 5. Perimeter intrusion alarm system 6. Security lighting 7. Video surveillance 8. Access control 9. Interior intrusion detection 10. Data acquisition, processing, and display 11. Voice communications 12. Line supervision 13. Duress alarms 14. Power supplies 15. Maintenance and testing <p>Annex A (informative) - Bibliography</p>
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IEEE 693	SEISMIC DESIGN OF SUBSTATIONS	8/5/2006	Presents recommendations for the seismic design of substation buildings, structures, and equipment.	Commercial Facilities	Government Facilities	Residential Facilities	<ul style="list-style-type: none"> 1 Overview 1.1 General 1.2 Scope 1.3 Purpose 1.4 How to use this recommended practice 1.5 Acceptance of previously qualified electrical equipment 1.6 Earthquakes and substations 1.7 Design and construction 1.8 The equipment at risk 1.9 Mechanical loads 2 Normative references 3 Definitions, acronyms, and abbreviations 3.1 Definitions 3.2 Abbreviations and acronyms 4 Instructions 4.1 General 4.2 Specifying this recommended practice in user's specifications 4.3 Standardization of criteria 4.4 Selection of qualification level 4.5 Witnessing of shake-table testing 4.6 Optional qualification methods 4.7 Qualifying equipment by group
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IEEE 979	GUIDE FOR SUBSTATION FIRE PROTECTION	27/11/2012	Specifies substation fire protection practices based on industry standards and good practices. Covers lessons from substation fires, substation fire protection research and testing, advancements in fire protection engineering practices, and changes in fire protection due to risk and environmental concerns.	Commercial Facilities	Government Facilities	Residential Facilities	Emergency Services	1. Overview 2. Normative references 3. Definitions 4. Fire hazards 5. Fire protection considerations for substation sites 6. Fire protection for substation buildings 7. Fire protection for substations 8. Fire protection for equipment 9. Fire protection measures selection Annex A (normative) - Additional information to main body clauses Annex B (informative) - Quantitative methods for analysis of hazards Annex C (informative) - Selection of fire protection systems and substation design Annex D (informative) - Fire emergency plan, incident management, and recovery Annex E (informative) - Examples Annex F (informative) - Bibliography
PUBL 4	Warnings and Instructions for Consumers in Transporting, Storing, Handling and Using Explosive Materials	2009		communications				
GS-G-2.1	Arrangements for Preparedness for a Nuclear or Radiological Emergency			Nuclear Reactors, Materials, and Waste	Emergency Services			
GS-G-3.1	Application of the Management System for Facilities and Activities			Commercial Facilities	Government Facilities			
GS-G-3.5	The Management System for Nuclear Installations			Nuclear Reactors, Materials, and Waste	Commercial Facilities	Government Facilities		
GS-R-3	The Management System for Facilities and Activities			Commercial Facilities	Government Facilities			
GS-R-4	Safety Assessment for Facilities and Activities			Commercial Facilities	Government Facilities			

NS-G-1.10	Design of Reactor Containment	2004		Nuclear Reactors, Materials, and Waste	Energy			
NS-G-1.11	Protection against Internal Hazards other than Fires and Explosions in the Design of Nuclear Power Plants	2004		Nuclear Reactors, Materials, and Waste	Energy			
NS-G-1.12	Design of the Reactor Core for Nuclear Power Plants	2005		Nuclear Reactors, Materials, and Waste	Energy			
NS-G-1.13	Radiation Protection Aspects of Design for Nuclear Power Plants	2005		Nuclear Reactors, Materials, and Waste	Energy			
NS-G-1.3	Instrumentation and Control Systems Important to Safety in Nuclear Power Plants	2002		Nuclear Reactors, Materials, and Waste	Energy			
NS-G-1.5	External Events Excluding Earthquakes in the Design of Nuclear Power Plants	2003		Nuclear Reactors, Materials, and Waste	Energy			
NS-G-1.6	Seismic Design and Qualification for Nuclear Power Plants	2003		Nuclear Reactors, Materials, and Waste	Energy			
NS-G-1.7	Protection Against Internal Fires and Explosions in the Design of Nuclear Power Plants	2004		Nuclear Reactors, Materials, and Waste	Energy			
NS-G-1.8	Design of Emergency Power Systems for Nuclear Power Plants	2004		Nuclear Reactors, Materials, and Waste	Energy	Emergency Services		
NS-G-1.9	Design of the Reactor Coolant System and Associated Systems in Nuclear Power Plants	2004		Nuclear Reactors, Materials, and Waste	Energy			
NS-G-2.1	Fire Safety in the Operation of Nuclear Power Plants	2000		Nuclear Reactors, Materials, and Waste	Energy	Emergency Services		
NS-G-2.6	Maintenance, Surveillance and In-Service Inspection in Nuclear Power Plants	2002		Nuclear Reactors, Materials, and Waste	Energy			
NS-G-3.1	External Human Induced Events in Site Evaluation for Nuclear Power Plants	2002		Nuclear Reactors, Materials, and Waste	Energy	Emergency Services	Healthcare and Public Health	

NS-G-3.2	Dispersion of Radioactive Material in Air and Water and Consideration of Population Distribution in Site Evaluation for Nuclear Power Plants	2002		Nuclear Reactors, Materials, and Waste	Energy	Societal		
NS-R-3	Site Evaluation for Nuclear Installations	2003		Nuclear Reactors, Materials, and Waste	Energy			
NS-R-4	Safety of Research Reactors	2005		Nuclear Reactors, Materials, and Waste	Energy			
SSG-18	Meteorological and Hydrological Hazards in Site Evaluation for Nuclear Installations	2011		Nuclear Reactors, Materials, and Waste	Emergency Services	Energy		
SSG-2	Deterministic Safety Analysis for Nuclear Power Plants	2009		Nuclear Reactors, Materials, and Waste	Emergency Services	Energy		
SSG-3	Development and Application of Level 1 Probabilistic Safety Assessment for Nuclear Power Plants	2010		Nuclear Reactors, Materials, and Waste	Emergency Services	Energy		
SSG-4	Development and Application of Level 2 Probabilistic Safety Assessment for Nuclear Power Plants	2010		Nuclear Reactors, Materials, and Waste	Emergency Services	Energy		
SSG-9	Seismic Hazards in Site Evaluation for Nuclear Installations	2010		Nuclear Reactors, Materials, and Waste	Emergency Services	Energy		
SSR-2/1	Safety of Nuclear Power Plants: Design	2010		Nuclear Reactors, Materials, and Waste	Emergency Services	Energy		
SSR-2/2	Safety of Nuclear Power Plants: Commissioning and Operation	2010		Nuclear Reactors, Materials, and Waste	Emergency Services	Energy		
ICC 2007 CALIFORNIA FIRE CODE, TITLE 24	CALIFORNIA FIRE CODE, TITLE 24 - PART 9	1/1/2008		Commercial Facilities	Government Facilities	Residential Facilities		
ICC 2007 CALIFORNIA MECHANICAL CODE	CALIFORNIA MECHANICAL CODE, TITLE 24 - PART 4	1/1/2008		Commercial Facilities	Government Facilities	Residential Facilities		
ICC 2007 CALIFORNIA PLUMBING CODE	CALIFORNIA PLUMBING CODE, TITLE 24 - PART 5	1/1/2008		Commercial Facilities	Government Facilities	Residential Facilities		

ICC 2007 CALIFORNIA REFERENCED STDS.CODE	CALIFORNIA REFERENCED STANDARDS CODE, TITLE 24 - PART 12	1/1/2008		Commercial Facilities	Government Facilities	Residential Facilities		
ICC 2007 FLORIDA BUILDING CODE - ACCESS.	FLORIDA BUILDING CODE - ACCESSIBILITY	2007		Commercial Facilities	Government Facilities	Residential Facilities		
ICC 2007 FLORIDA BUILDING CODE - BUILDING	FLORIDA BUILDING CODE - BUILDING	2007		Commercial Facilities	Government Facilities	Residential Facilities		
ICC 2007 FLORIDA BUILDING CODE - EXIST.BUILD	FLORIDA BUILDING CODE - EXISTING BUILDING	2007		Commercial Facilities	Government Facilities	Residential Facilities		
ICC 2007 FLORIDA BUILDING CODE - FUEL GAS	FLORIDA BUILDING CODE - FUEL GAS	2007		Commercial Facilities	Government Facilities	Residential Facilities		
ICC 2007 FLORIDA BUILDING CODE - MECHANICAL	FLORIDA BUILDING CODE - MECHANICAL	2007		Commercial Facilities	Government Facilities	Residential Facilities		
ICC 2007 FLORIDA BUILDING CODE - PLUMBING	FLORIDA BUILDING CODE - PLUMBING	2007		Commercial Facilities	Government Facilities	Residential Facilities		
ICC 2007 FLORIDA BUILDING CODE - RESI.	FLORIDA BUILDING CODE - RESIDENTIAL	2007		Commercial Facilities	Government Facilities	Residential Facilities		
ICC 2007 FLORIDA BUILDING CODE - TEST 'HVHZ'	FLORIDA BUILDING CODE - TEST PROTOCOLS FOR HIGH VELOCITY HURRICANE ZONE	2007		Commercial Facilities	Government Facilities	Residential Facilities		
ICC 2008 CALIFORNIA GREEN BUILD. CODE	CALIFORNIA GREEN BUILDING STANDARDS CODE, TITLE 24 - PART 11	2008		Commercial Facilities	Government Facilities	Residential Facilities		
ICC 2009 DESIGNER COLLECTION	2009 DESIGNER COLLECTION	2009		Commercial Facilities	Government Facilities	Residential Facilities		
ICC 2009 IECC/ASHRAE	2009 INTERNATIONAL ENERGY CONSERVATION CODE AND ANSI/ASHRAE/IESNA STANDARD 90.1-2007	2009		Commercial Facilities	Government Facilities	Residential Facilities		
ICC 2012 ACCESSIBILITY STUDY COMPANION	2012 ACCESSIBILITY STUDY COMPANION	2012		Commercial Facilities	Government Facilities	Residential Facilities		

ICC 2012 COMPLETE COLLECTION OF I-CODES	2012 COMPLETE COLLECTION OF I-CODES [R]	2012	Includes all 2012 I-Codes: - 2012 International Building Code. - 2012 International Residential Code for One- and Two-Family Dwellings. - 2012 International Mechanical Code. - 2012 International Plumbing Code (Includes the 2012 IPSDC). - 2012 International Fire Code. - 2012 International Fuel Gas Code. - 2012 International Energy Conservation Code (soft cover). - 2012 International Existing Building Code. - 2012 International Wildland-Urban Interface Code (soft cover). - 2012 ICC Performance Code for Buildings and Facilities (soft cover). - 2012 International Property Maintenance Code (soft cover). - 2012 International Zoning Code (soft cover). - 2012 International Private Sewage	Commercial Facilities	Government Facilities	Residential Facilities		
ICC 2012 IECC/ASHRAE	2012 INTERNATIONAL ENERGY CONSERVATION CODE AND ANSI/ASHRAE/IES STANDARD 90.1-2010	2012		Commercial Facilities	Government Facilities	Residential Facilities		
ICC 2012 IFC STUDY COMPANION	2012 INTERNATIONAL FIRE CODE STUDY COMPANION	2012		Commercial Facilities	Government Facilities	Residential Facilities		
ICC 2012 IMC STUDY COMPANION	2012 INTERNATIONAL MECHANICAL CODE STUDY COMPANION	2012		Commercial Facilities	Government Facilities	Residential Facilities		

ICC 2012 INSPECTORS COLLECTION	2012 INSPECTORS COLLECTION	2012	Contains: - 2012 International Building Code. - 2012 International Residential Code for One- and Two-Family Dwellings. - 2012 International Existing Building Code. - 2012 International Fuel Gas Code. - 2012 International Mechanical Code. - 2012 International Plumbing Code (Includes IPSDC). - 2012 International Energy Conservation Code (Soft cover only). - 2011 National Electrical Code.	Commercial Facilities	Government Facilities	Residential Facilities		
ICC 2012 INT. BUILD.CODE & COMM.-I	2012 INTERNATIONAL BUILDING CODE & COMMENTARY - VOLUME 1: CHAPTERS 1 TO 15	2012		Commercial Facilities	Government Facilities	Residential Facilities		
ICC 2012 INT. BUILD.CODE & COMM.-II	2012 INTERNATIONAL BUILDING CODE & COMMENTARY - VOLUME 2: CHAPTERS 16 TO 35	2012		Commercial Facilities	Government Facilities	Residential Facilities		
ICC 2012 INT. BUILDING CODE HANDBOOK	2012 INTERNATIONAL BUILDING CODE HANDBOOK	2012	Guide to the entire 2012 International Building Code (IBC). Includes both structural and fire- and life-safety provisions. Provides the information you need to get construction jobs done right, on time, and up to the requirements of the 2012 IBC. Makes it easy to understand and apply complex IBC requirements and achieve compliance.	Commercial Facilities	Government Facilities	Residential Facilities		
ICC 2012 INT. ENERGY CODE & COMM.	2012 INTERNATIONAL ENERGY CONSERVATION CODE & COMMENTARY	2012		Energy	Commercial Facilities	Government Facilities	Residential Facilities	

ICC 2012 INT. ENERGY CONSV. CODE	INTERNATIONAL ENERGY CONSERVATION CODE	1/5/2011	Applicable to commercial & residential buildings and the buildings sites and associated systems and equipment.	Energy	Commercial Facilities	Government Facilities	Residential Facilities	IECC - COMMERCIAL PROVISIONS CHAPTER 1 - SCOPE AND ADMINISTRATION CHAPTER 2 - DEFINITIONS CHAPTER 3 - GENERAL REQUIREMENTS CHAPTER 4 - COMMERCIAL ENERGY EFFICIENCY CHAPTER 5 - REFERENCED STANDARDS INDEX IECC - RESIDENTIAL PROVISIONS CHAPTER 1 - SCOPE AND ADMINISTRATION CHAPTER 2 - DEFINITIONS CHAPTER 3 - GENERAL REQUIREMENTS CHAPTER 4 - RESIDENTIAL ENERGY EFFICIENCY CHAPTER 5 - REFERENCED STANDARDS INDEX
ICC 2012 INT. EXIST. BUILD. CODE & COMM.	2012 INTERNATIONAL EXISTING BUILDING CODE & COMMENTARY	2012		Energy	Commercial Facilities	Government Facilities		

ICC 2012 INT. EXIST. BUILDING CODE	INTERNATIONAL EXISTING BUILDING CODE	1/4/2011	Includes requirements intended to encourage the uses and reuse of existing buildings. Provides repair, alteration, addition and change of occupancy for existing buildings and historic buildings, while achieving appropriate levels of safety without requiring full compliance with the new construction requirements in the building code.	Commercial Facilities	Government Facilities	Residential Facilities		CHAPTER 1 - SCOPE AND ADMINISTRATION CHAPTER 2 - DEFINITIONS CHAPTER 3 - COMPLIANCE METHODS CHAPTER 4 - PRESCRIPTIVE COMPLIANCE METHOD CHAPTER 5 - CLASSIFICATION OF WORK CHAPTER 6 - REPAIRS CHAPTER 7 - ALTERATIONS - LEVEL CHAPTER 8 - ALTERATIONS - LEVEL CHAPTER 9 - ALTERATIONS - LEVEL CHAPTER 10 - CHANGE OF OCCUPANCY CHAPTER 11 - ADDITIONS CHAPTER 12 - HISTORIC BUILDINGS CHAPTER 13 - RELOCATED OR MOVED BUILDINGS CHAPTER 14 - PERFORMANCE COMPLIANCE METHODS CHAPTER 15 - CONSTRUCTION SAFEGUARDS CHAPTER 16 - REFERENCED STANDARDS APPENDIX A - GUIDELINES FOR THE SEISMIC RETROFIT OF EXISTING BUILDINGS APPENDIX B - SUPPLEMENTARY ACCESSIBILITY REQUIREMENTS FOR EXISTING BUILDINGS AND FACILITIES APPENDIX C - GUIDELINES FOR THE
ICC 2012 INT. FIRE CODE & COMM.	2012 INTERNATIONAL FIRE CODE & COMMENTARY	2012		Commercial Facilities	Government Facilities	Residential Facilities		
ICC 2012 INT. FUEL GAS CODE & COMM.	2012 INTERNATIONAL FUEL GAS CODE & COMMENTARY	2012		Energy	Commercial Facilities	Government Facilities	Residential Facilities	
ICC 2012 INT. GREEN CONST. CODE	INTERNATIONAL GREEN CONSTRUCTION CODE(TM] (IGCC(TM])	2012		Commercial Facilities	Government Facilities	Residential Facilities		
ICC 2012 INT. GREEN CONST. CODE - WATER	2012 INTERNATIONAL GREEN CONSTRUCTION CODE - WATER EFFICIENCY PROVISIONS	2012	Includes provisions extracted directly from the 2012 International Green Construction Code and is designed for ease of access to its water-related provisions.	Water and Wastewater Systems	Commercial Facilities	Government Facilities	Residential Facilities	

ICC 2012 INT. GREEN CONST. CODE & COMM	INTERNATIONAL GREEN CONSTRUCTION CODE(TM) (IGCC(TM)) & COMMENTARY	2012		Commercial Facilities	Government Facilities	Residential Facilities		
ICC 2012 INT. MECHANICAL CODE & COMM.	2012 INTERNATIONAL MECHANICAL CODE & COMMENTARY	2012		Commercial Facilities	Government Facilities	Residential Facilities		
ICC 2012 INT. PLUMBING CODE & COMM.	2012 INTERNATIONAL PLUMBING CODE & COMMENTARY	2012		Water and Wastewater Systems	Commercial Facilities	Government Facilities	Residential Facilities	
ICC 2012 INT. PROPERTY CODE & COMM.	2012 INTERNATIONAL PROPERTY MAINTENANCE CODE & COMMENTARY	2012		Commercial Facilities	Government Facilities	Residential Facilities		
ICC 2012 INT. PROPERTY MAINT. CODE	INTERNATIONAL PROPERTY MAINTENANCE CODE	1/4/2011	Describes provisions applicable to all existing residential and nonresidential structures and all existing premises and constitute minimum requirements and standards for premises, structures, equipment and facilities for light, ventilation, space, heating, sanitation, protection from the elements, life safety, safety from fire and other hazards, and for safe and sanitary maintenance; the responsibility of owners, operators and occupants; the occupancy of existing structures and premises, and for administration, enforcement and penalties.	Commercial Facilities	Government Facilities	Residential Facilities		CHAPTER 1 - SCOPE AND ADMINISTRATION CHAPTER 2 - DEFINITIONS CHAPTER 3 - GENERAL REQUIREMENTS CHAPTER 4 - LIGHT, VENTILATION AND OCCUPANCY LIMITATIONS CHAPTER 5 - PLUMBING FACILITIES AND FIXTURE REQUIREMENTS CHAPTER 6 - MECHANICAL AND ELECTRICAL REQUIREMENTS CHAPTER 7 - FIRE SAFETY REQUIREMENTS CHAPTER 8 - REFERENCED STANDARDS APPENDIX A - BOARDING STANDARD INDEX

ICC 2012 INT. PVT. SEWAGE DISP.CODE	INTERNATIONAL PRIVATE SEWAGE DISPOSAL CODE	1/4/2011	Covers provisions for design, installation, and inspection of private sewage disposal systems, and provides flexibility in the development of safe and sanitary systems. Septic tank and effluent absorption systems or other treatment tank and effluent disposal systems shall be permitted where a public sewer is not available to the property served.	Water and Wastewater Systems	Commercial Facilities	Government Facilities	Residential Facilities	CHAPTER 1 - SCOPE AND ADMINISTRATION CHAPTER 2 - DEFINITIONS CHAPTER 3 - GENERAL REGULATIONS CHAPTER 4 - SITE EVALUATION AND REQUIREMENTS CHAPTER 5 - MATERIALS CHAPTER 6 - SOIL ABSORPTION SYSTEMS CHAPTER 7 - PRESSURE DISTRIBUTION SYSTEMS CHAPTER 8 - TANKS CHAPTER 9 - MOUND SYSTEMS CHAPTER 10 - CESSPOOLS CHAPTER 11 - RESIDENTIAL WASTE WATER SYSTEMS CHAPTER 12 - INSPECTIONS CHAPTER 13 - NONLIQUID SATURATED TREATMENT SYSTEMS CHAPTER 14 - REFERENCED STANDARDS APPENDIX A - SYSTEM LAYOUT ILLUSTRATIONS APPENDIX B - TABLES FOR PRESSURE DISTRIBUTION SYSTEMS INDEX
ICC 2012 INT. RESI.CODE & COMM.-I	2012 INTERNATIONAL RESIDENTIAL CODE & COMMENTARY - VOLUME 1: CHAPTERS 1 TO 11	2012		residential facilities				
ICC 2012 INT. RESI.CODE & COMM.-II	2012 INTERNATIONAL RESIDENTIAL CODE & COMMENTARY - VOLUME 2: CHAPTERS 12 TO 43	2012		residential facilities				

ICC 2012 INTERNATIONAL BUILDING CODE	INTERNATIONAL BUILDING CODE	1/5/2011	Describes provisions applicable to the construction, alteration, relocation, enlargement, replacement, repair, equipment, use and occupancy, location, maintenance, removal and demolition of every building or structure or any appurtenances connected or attached to such buildings or structures. Does not apply to detached one- and two-family dwellings and townhouses up to three stories.	Commercial Facilities	Government Facilities	Residential Facilities		CHAPTER 1 - SCOPE AND ADMINISTRATION CHAPTER 2 - DEFINITIONS CHAPTER 3 - USE AND OCCUPANCY CLASSIFICATION CHAPTER 4 - SPECIAL DETAILED REQUIREMENTS BASED ON USE AND OCCUPANCY CHAPTER 5 - GENERAL BUILDING HEIGHTS AND AREAS CHAPTER 6 - TYPES OF CONSTRUCTION CHAPTER 7 - FIRE AND SMOKE PROTECTION FEATURES CHAPTER 8 - INTERIOR FINISHES CHAPTER 9 - FIRE PROTECTION SYSTEMS CHAPTER 10 - MEANS OF EGRESS CHAPTER 11 - ACCESSIBILITY CHAPTER 12 - INTERIOR ENVIRONMENT CHAPTER 13 - ENERGY EFFICIENCY CHAPTER 14 - EXTERIOR WALLS CHAPTER 15 - ROOF ASSEMBLIES AND ROOFTOP STRUCTURES CHAPTER 16 - STRUCTURAL DESIGN CHAPTER 17 - STRUCTURAL TESTS AND SPECIAL INSPECTIONS CHAPTER 18 - SOILS AND FOUNDATIONS CHAPTER 19 - CONCRETE CHAPTER 20 - ALUMINUM CHAPTER 21 -
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ICC 2012 INTERNATIONAL FIRE CODE	INTERNATIONAL FIRE CODE	1/5/2011	Establishes regulations affecting or relating to structures, processes, premises and safeguards regarding: 1. The hazard of fire and explosion arising from the storage, handling or use of structures, materials or devices; 2. Conditions hazardous to life, property or public welfare in the occupancy of structures or premises; 3. Fire hazards in the structure or on the premises from occupancy or operation; 4. Matters related to the construction, extension, repair, alteration or removal of fire suppression or alarm systems; and 5. Conditions affecting the safety of fire fighters and emergency responders during emergency operations.	Commercial Facilities	Government Facilities	Residential Facilities		CHAPTER 1 - SCOPE AND ADMINISTRATION CHAPTER 2 - DEFINITIONS CHAPTER 3 - GENERAL REQUIREMENTS CHAPTER 4 - EMERGENCY PLANNING AND PREPAREDNESS CHAPTER 5 - FIRE SERVICE FEATURES CHAPTER 6 - BUILDING SERVICES AND SYSTEMS CHAPTER 7 - FIRE-RESISTANCE-RATED CONSTRUCTION CHAPTER 8 - INTERIOR FINISH, DECORATIVE MATERIALS AND FURNISHINGS CHAPTER 9 - FIRE PROTECTION SYSTEMS CHAPTER 10 - MEANS OF EGRESS CHAPTER 11 - CONSTRUCTION REQUIREMENTS FOR EXISTING BUILDINGS CHAPTER 20 - AVIATION FACILITIES CHAPTER 21 - DRY CLEANING CHAPTER 22 - COMBUSTIBLE DUSTPRODUCING OPERATIONS CHAPTER 23 - MOTOR FUEL-DISPENSING FACILITIES AND REPAIR GARAGES CHAPTER 24 - FLAMMABLE FINISHES CHAPTER 25 - FRUIT AND CROP RIPENING CHAPTER 26 - FUMIGATION AND
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ICC 2012 INTERNATIONAL FUEL GAS CODE	INTERNATIONAL FUEL GAS CODE	1/4/2011	Applies to the installation of fuel-gas piping systems, fuel gas appliances, gaseous hydrogen systems and related accessories in accordance with: - Gaseous hydrogen systems. - Piping systems. - Gas appliances. - Systems, appliances and equipment outside the scope. - Other fuels.	Energy	Commercial Facilities	Government Facilities	Residential Facilities	CHAPTER 1 - SCOPE AND ADMINISTRATION CHAPTER 2 - DEFINITIONS CHAPTER 3 - GENERAL REGULATIONS CHAPTER 4 - GAS PIPING INSTALLATIONS CHAPTER 5 - CHIMNEYS AND VENTS CHAPTER 6 - SPECIFIC APPLIANCES CHAPTER 7 - GASEOUS HYDROGEN SYSTEMS CHAPTER 8 - REFERENCED STANDARDS APPENDIX A - SIZING AND CAPACITIES OF GAS PIPING (IFGS) APPENDIX B - SIZING OF VENTING SYSTEMS SERVING APPLIANCES EQUIPPED WITH DRAFT HOODS, CATEGORY I APPLIANCES AND APPLIANCES LISTED FOR USE WITH TYPE B VENTS (IFGS) APPENDIX C - EXIT TERMINALS OF MECHANICAL DRAFT AND DIRECT-VENT VENTING SYSTEMS (IFGS) APPENDIX D - RECOMMENDED PROCEDURE FOR SAFETY INSPECTION OF AN EXISTING APPLIANCE INSTALLATION (IFGS) INDEX
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ICC 2012 INTERNATIONAL MECH. CODE	INTERNATIONAL MECHANICAL CODE	1/4/2011	Controls the design, installation, maintenance, alteration and inspection of mechanical systems that are permanently installed and utilized to provide control of environmental conditions and related processes within buildings.	Commercial Facilities	Government Facilities	Residential Facilities		CHAPTER 1 - SCOPE AND ADMINISTRATION CHAPTER 2 - DEFINITIONS CHAPTER 3 - GENERAL REGULATIONS CHAPTER 4 - VENTILATION CHAPTER 5 - EXHAUST SYSTEMS CHAPTER 6 - DUCT SYSTEMS CHAPTER 7 - COMBUSTION AIR CHAPTER 8 - CHIMNEYS AND VENTS CHAPTER 9 - SPECIFIC APPLIANCES, FIREPLACES AND SOLID FUEL-BURNING EQUIPMENT CHAPTER 10 - BOILERS, WATER HEATERS AND PRESSURE VESSELS CHAPTER 11 - REFRIGERATION CHAPTER 12 - HYDRONIC PIPING CHAPTER 13 - FUEL OIL PIPING AND STORAGE CHAPTER 14 - SOLAR SYSTEMS CHAPTER 15 - REFERENCED STANDARDS APPENDIX A - CHIMNEY CONNECTOR PASS-THROUGHS APPENDIX B - RECOMMENDED PERMIT FEE SCHEDULE INDEX
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ICC 2012 INTERNATIONAL PERFORM. CODE	ICC PERFORMANCE CODE FOR BUILDINGS AND FACILITIES	1/4/2011	Specifies appropriate health, safety, welfare, and social and economic value, while promoting innovative, flexible and responsive solutions that optimize the expenditure and consumption of resources.	Commercial Facilities	Government Facilities	Residential Facilities		PART I - Administrative CHAPTER 1 - GENERAL ADMINISTRATIVE PROVISIONS CHAPTER 2 - DEFINITIONS CHAPTER 3 - DESIGN PERFORMANCE LEVELS CHAPTER 4 - RELIABILITY DURABILITY PART II - Building CHAPTER 5 - STABILITY CHAPTER 6 - FIRE SAFETY CHAPTER 7 - PEDESTRIAN CIRCULATION CHAPTER 8 - SAFETY OF USERS CHAPTER 9 - MOISTURE CHAPTER 10 - INTERIOR ENVIRONMENT CHAPTER 11 - MECHANICAL CHAPTER 12 - PLUMBING CHAPTER 13 - FUEL GAS CHAPTER 14 - ELECTRICITY CHAPTER 15 - ENERGY EFFICIENCY PART III - Fire CHAPTER 16 - FIRE PREVENTION CHAPTER 17 - FIRE IMPACT MANAGEMENT CHAPTER 18 - MANAGEMENT OF PEOPLE CHAPTER 19 - MEANS OF EGRESS CHAPTER 20 - EMERGENCY NOTIFICATION, ACCESS
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ICC 2012 INTERNATIONAL PLUMBING CODE	INTERNATIONAL PLUMBING CODE (INCLUDES IPSDC)	1/4/2011	Describes provisions applicable to the erection, installation, alteration, repairs, relocation, replacement, addition to, use or maintenance of plumbing systems within this jurisdiction. Regulates nonflammable medical gas, inhalation anesthetic, vacuum piping, nonmedical oxygen systems and sanitary and condensate vacuum collection systems.	Water and Wastewater Systems	Commercial Facilities	Government Facilities	Residential Facilities	CHAPTER 1 - SCOPE AND ADMINISTRATION CHAPTER 2 - DEFINITIONS CHAPTER 3 - GENERAL REGULATIONS CHAPTER 4 - FIXTURES, FAUCETS AND FIXTURE FITTINGS CHAPTER 5 - WATER HEATERS CHAPTER 6 - WATER SUPPLY AND DISTRIBUTION CHAPTER 7 - SANITARY DRAINAGE CHAPTER 8 - INDIRECT/SPECIAL WASTE CHAPTER 9 - VENTS CHAPTER 10 - TRAPS, INTERCEPTORS AND SEPARATORS CHAPTER 11 - STORM DRAINAGE CHAPTER 12 - SPECIAL PIPING AND STORAGE SYSTEMS CHAPTER 13 - GRAY WATER RECYCLING SYSTEMS CHAPTER 14 - REFERENCED STANDARDS APPENDIX A - PLUMBING PERMIT FEE SCHEDULE APPENDIX B - RATES OF RAINFALL FOR VARIOUS CITIES APPENDIX C - VACUUM DRAINAGE SYSTEM APPENDIX D - DEGREE DAY AND DESIGN TEMPERATURES APPENDIX E - SIZING OF WATER PIPING SYSTEM APPENDIX F - STRUCTURAL
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ICC 2012 INTERNATIONAL RESI. CODE	INTERNATIONAL RESIDENTIAL CODE FOR ONE- AND TWO-FAMILY DWELLINGS	1/5/2011	Applies to the construction, alteration, movement, enlargement, replacement, repair, equipment, use and occupancy, location, removal and demolition of detached one- and two-family dwellings and townhouses not more than three stories above grade plane in height with a separate means of egress and their accessory structures.	residential facilities				Part I - Administrative CHAPTER 1 - SCOPE AND ADMINISTRATION PART 1 - SCOPE AND APPLICATION PART 2 - ADMINISTRATION AND ENFORCEMENT Part II - Definitions CHAPTER 2 - DEFINITIONS Part III - Building Planning and Construction CHAPTER 3 - BUILDING PLANNING CHAPTER 4 - FOUNDATIONS CHAPTER 5 - FLOORS CHAPTER 6 - WALL CONSTRUCTION CHAPTER 7 - WALL COVERING CHAPTER 8 - ROOF-CEILING CONSTRUCTION CHAPTER 9 - ROOF ASSEMBLIES CHAPTER 10 - CHIMNEYS AND FIREPLACES Part IV - Energy Conservation CHAPTER 11 - ENERGY EFFICIENCY Part V - Mechanical CHAPTER 12 - MECHANICAL ADMINISTRATION CHAPTER 13 - GENERAL MECHANICAL SYSTEM REQUIREMENTS CHAPTER 14 - HEATING AND COOLING EQUIPMENT AND APPLIANCES CHAPTER 15 - EXHAUST SYSTEMS CHAPTER 16 - DUCT SYSTEMS CHAPTER 17 - COMBUSTION AIR
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ICC 2012 INTERNATIONAL ZONING CODE	INTERNATIONAL ZONING CODE	1/4/2011	Aims is to safeguard the health, property and public welfare by controlling the design, location, use or occupancy of all buildings and structures through the regulated and orderly development of land and land uses within this jurisdiction. Applies to the construction, addition, alteration, moving, repair and use of any building, structure, parcel of land or sign within a jurisdiction, except work located primarily in a public way, public utility towers and poles and public utilities unless specifically mentioned in this code.	Commercial Facilities	Government Facilities	Residential Facilities		CHAPTER 1 - SCOPE AND ADMINISTRATION CHAPTER 2 - DEFINITIONS CHAPTER 3 - USE DISTRICTS CHAPTER 4 - AGRICULTURAL ZONES CHAPTER 5 - RESIDENTIAL ZONES CHAPTER 6 - COMMERCIAL AND COMMERCIAL/RESIDENTIAL ZONES CHAPTER 7 - FACTORY/INDUSTRIAL ZONES CHAPTER 8 - GENERAL PROVISIONS CHAPTER 9 - SPECIAL REGULATIONS CHAPTER 10 - SIGN REGULATIONS CHAPTER 11 - NONCONFORMING STRUCTURES AND USES CHAPTER 12 - CONDITIONAL USES CHAPTER 13 - PLANNED UNIT DEVELOPMENT CHAPTER 14 - REFERENCED STANDARDS INDEX
ICC 2012 PLUMBING AND HVAC COLLECTION	2012 PLUMBING AND HVAC COLLECTION	2012	Contains: - 2012 International Residential Code for One- and Two-Family Dwellings. - 2012 International Fuel Gas Code. - 2012 International Mechanical Code. - 2012 International Plumbing Code (Includes IPSDC). - 2012 International Private Sewage Disposal Code (Soft cover only). - 2012 International Energy Conservation Code (Soft cover only).	Water and Wastewater Systems	Commercial Facilities	Government Facilities	Residential Facilities	

ICC 400	STANDARD ON THE DESIGN AND CONSTRUCTION OF LOG STRUCTURES	2012	Covers a variety of issues integral to log construction including production, structural aspects, thermal envelope, and settlement. Also, offers a solid reference for design, construction and installation requirements for log structures.	Commercial Facilities	Government Facilities	Residential Facilities		
ICC 500	STANDARD FOR THE DESIGN AND CONSTRUCTION OF STORM SHELTERS	2008	Specifies minimum design and construction requirements for storm shelters that provide a safe refuge from storms that produce high winds, hurricanes, and tornadoes. The magnitude of wind speeds associated with these events require building occupants and residents to evacuate the area or seek protection in a shelter designed for resistance to extraordinary loads and flying debris.	Commercial Facilities	Government Facilities	Residential Facilities		
ICC 600	STANDARD FOR RESIDENTIAL CONSTRUCTION IN HIGH-WIND REGIONS	2008	Covers prescriptive methods to provide wind resistant designs and construction details for residential buildings of masonry, concrete, wood-framed or cold-formed steel framed construction sited in high wind regions. Also, provides prescriptive requirements and other details of construction for buildings sited in wind climates of 100 to 150 mph in 10 mph increments.	residential facilities				

ICC 700	NATIONAL GREEN BUILDING STANDARD	2012	Covers the "green" practices that can be incorporated into new homes, including high-rise multifamily buildings, home remodeling and additions, hotels and motels, and the site upon which the green homes are located.	Commercial Facilities	Government Facilities	Residential Facilities		
ICC A117.1	ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES	1/1/2009	Enable sites, facilities, buildings and elements accessible to and usable by people with such physical disabilities as the inability to walk, difficulty walking, reliance on walking aids, blindness and visual impairment, deafness and hearing impairment, in coordination, reaching and manipulation disabilities, lack of stamina, difficulty interpreting and reacting to sensory information, and extremes of physical size.	Commercial Facilities	Government Facilities	Residential Facilities		
ICC A117.1 COMMENTARY	STANDARD AND COMMENTARY: ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES (ICC A117.1-2009)	2009	Includes the complete text of the ICC/ANSI A117.1-2009 Standard for Accessible and Usable Buildings and Facilities accompanied by corresponding commentary. Assists users of the standard understand its application and intent.	Commercial Facilities	Government Facilities	Residential Facilities		Chapter 1 - Application and Administration Chapter 2 - Scoping Chapter 3 - Building Blocks Chapter 4 - Accessible Routes Chapter 5 - General Site and Building Elements Chapter 6 - Plumbing Elements and Facilities Chapter 7 - Communication Elements and Features Chapter 8 - Special Rooms and Spaces Chapter 9 - Built-In Furnishings and Equipment Chapter 10 - Dwelling Units and Sleeping Units

ICC G2	GUIDELINE FOR ACOUSTICS	2010	Specifies improved acoustical analysis of assemblies, components and installation methods, and a more detailed inspection process beyond the minimum requirements traditionally found in building codes.	Commercial Facilities	Government Facilities	Residential Facilities		
ICC G3	GLOBAL GUIDELINE FOR PRACTICAL PUBLIC TOILET DESIGN	2011	Aims to assist in providing clean, convenient, hygienic, and safe public toilet facilities of appropriate design and quality, and to give guidance on the basic care and maintenance of such facilities.	Water and Wastewater Systems	Commercial Facilities	Government Facilities	Residential Facilities	
ICC G4	GUIDELINE FOR COMMISSIONING	2012	Aims to provide guidance for a code official or regulator to use in order to competently enforce commissioning, either with in-house staff or the use of a third party.	Commercial Facilities	Government Facilities	Residential Facilities		
ICC IBC & ASCE 7-05 BUNDLE	2009 INTERNATIONAL BUILDING CODE AND ASCE 7-05 BUNDLE	2009		Commercial Facilities	Government Facilities	Residential Facilities		
ICC IBC & ASCE 7-10 COMBO	2012 INTERNATIONAL BUILDING CODE AND ASCE 7-10 COMBO	2012		Commercial Facilities	Government Facilities	Residential Facilities		
ICC MECHANICAL COMBO	2009 MECHANICAL COMBO	2009		Commercial Facilities	Government Facilities	Residential Facilities		
ICC PLUMBING COMBO	2009 PLUMBING COMBO	2009		Water and Wastewater Systems	Commercial Facilities	Government Facilities	Residential Facilities	

ICC SSTD 10	STANDARD FOR HURRICANE RESISTANT CONSTRUCTION	1999	Specifies design and construction details for improving the structural performance of single and multifamily dwellings. The prescriptive requirements contained are based on the engineering knowledge reflected in Section 1606 of the Standard Building Code and are intended to provide minimum requirements to ensure structural integrity within the limitations in building geometry, materials and wind climate specified.	residential facilities	Emergency Services			
ICC SSTD 11	DETERMINING WIND RESISTANCE OF CONCRETE OR CLAY ROOF TILES	1999	Specifies design and construction details for improving the structural performance of single and multifamily dwellings.	Commercial Facilities	Government Facilities	Residential Facilities		
ICC SSTD 12	DETERMINING IMPACT RESISTANCE FROM WINDBORNE DEBRIS	1999	Aims to promote the public health, safety, and general welfare and to minimize public and private losses due to wind and windborne debris damage to impact protective systems and exterior glazed opening systems.	Commercial Facilities	Government Facilities	Residential Facilities	Healthcare and Public Health	

ANSI INCITS 415	INFORMATION TECHNOLOGY HOMELAND SECURITY MAPPING STANDARD - POINT SYMBOLS FOR EMERGENCY MANAGEMENT		Lays down a common set of symbols for use by mapmakers in support of emergency managers and first responders. It will allow users to rapidly interpret map data and to be able to disseminate consistent, usable information.	Emergency Services				Foreword 1 Purpose and Scope 2 Conformance 3 Terms and Definitions 4 Abbreviated Terms 5 Use and Application Figures 1 Frame Detail - Damage and Operational Status 2 Single Frame Symbol Detail 3 Multiframe Symbol Detail Annexes A Damage/Operational Status Frames B Individual Feature Symbols B.1 Incident Category B.2 Natural Events Category B.3 Operations Category B.4 Infrastructure Category C Bibliography
ANSI INCITS 415	INFORMATION TECHNOLOGY HOMELAND SECURITY MAPPING STANDARD - POINT SYMBOLS FOR EMERGENCY MANAGEMENT	13/7/2006	Lays down a common set of symbols for use by mapmakers in support of emergency managers and first responders. It will allow users to rapidly interpret map data and to be able to disseminate consistent, usable information.	Emergency Services				Foreword 1 Purpose and Scope 2 Conformance 3 Terms and Definitions 4 Abbreviated Terms 5 Use and Application Figures 1 Frame Detail - Damage and Operational Status 2 Single Frame Symbol Detail 3 Multiframe Symbol Detail Annexes A Damage/Operational Status Frames B Individual Feature Symbols B.1 Incident Category B.2 Natural Events Category B.3 Operations Category B.4 Infrastructure Category C Bibliography

IEC 60839-5-2	Alarm systems - Part 5: Requirements for alarm transmission systems - Section 2: General requirements for equipment	3/5/1991	Specifies the general requirements for equipment used in alarm transmission systems.	communications	Emergency Services			<p>FOREWORD</p> <p>Clause</p> <p>1 Scope</p> <p>2 Normative references</p> <p>3 General considerations</p> <p>4 Requirements</p> <p>5 Electrical safety and protection</p> <p>6 Environmental requirements</p> <p>7 Test methods</p> <p>8 Marking</p> <p>9 Product specification</p>
IEC 60839-5-5	Alarm systems - Part 5: Requirements for alarm transmission systems - Section 6: Requirements for voice communicator systems using the public switched telephone network	3/5/1991	Specifies the requirements for digital communicator systems using the public switched telephone network which are additional to those specified in IEC 839-5-1 and IEC 839-5-2. Covers switched connections providing event driven signalling between an alarm system and a remote centre.	communications	Emergency Services			

IEC 60839-7-1	Alarm systems - Part 7-1: Message formats and protocols for serial data interfaces in alarm transmission systems - General	20/3/2001	Gives the requirements for standard serial data interfaces in alarm transmission systems. Also provides an outline of how alarm transmission systems are connected and the various types of serial data interfaces that might be employed.	communications	Emergency Services	Information Technology		<p>FOREWORD</p> <p>Clause</p> <p>1 Scope</p> <p>2 Normative references</p> <p>3 Definitions</p> <p>4 Abbreviations</p> <p>5 OSI reference model</p> <p>5.1 OSI layers</p> <p>5.2 Definition of each layer</p> <p>6 General considerations</p> <p>7 Types of interface</p> <p>7.1 Alarm system interface</p> <p>7.2 Intermediate interface</p> <p>7.3 Terminal interface</p> <p>Annex A (informative) Message structure</p> <p>Annex B (informative) Examples</p> <p>Bibliography</p> <p>Figures</p>
IEC 60839-7-11	Alarm systems - Part 7-11: Message formats and protocols for serial data interfaces in alarm transmission systems - Serial protocol for use by digital communicator systems using ITU-T Recommendation V.23 signalling at interfaces with the PSTN	20/3/2001	Gives requirements for standard interfaces between the Public Switched Telephone Network (PSTN) and alarm system transceivers. It provides a 1200 Bd interface using ITU-T Recommendation V.23. This standard applies equally to the interface between an alarm system and the PSTN where the alarm system transceiver functions are integrated into the control and indicating equipment (CIE).	communications	Emergency Services	Information Technology		<p>FOREWORD</p> <p>1 Scope</p> <p>2 Normative references</p> <p>3 Definitions</p> <p>4 Abbreviations</p> <p>5 Layer 7 - Application functions</p> <p>6 Layer 4 - Transport</p> <p>7 Notification of transmission errors</p> <p>8 Monitoring of the interface to the PSTN</p> <p>9 Layer 3 - Network</p> <p>10 Layer 2 - Data link</p> <p>11 Layer 1 - Physical</p> <p>11.1 Transmitted octets</p> <p>11.2 Signal levels</p>

IEC 60839-7-12	Alarm systems - Part 7-12: Message formats and protocols for serial data interfaces in alarm transmission systems - PTT interfaces for dedicated communications channels using ITU-T Recommendation V.23 signalling	20/3/2001	Provides the requirements for standard interfaces between the alarm system transceivers and transmission network where both form part of a dedicated channel alarm transmission system as defined in IEC 60839-5-4. It applies equally to the interface between an alarm system and the transmission where the alarm system transceiver functions are integrated into the control and indicating equipment (CIE). It also applies to the interface to the transmission network from the terminal receiver at the alarm receiving centre.	communications	Emergency Services	Information Technology		<p>FOREWORD</p> <ol style="list-style-type: none"> 1 Scope 2 Normative references 3 Definitions 4 Abbreviations 5 Layer 7 - Application functions 6 Layer 4 - Transport 7 Notification of transmission errors 8 Monitoring of the interface to the transmission network 9 Layer 3 - Network 10 Layer 2 - Data link 11 Layer 1 - Physical <ol style="list-style-type: none"> 11.1 Transmitted octets 11.2 Signal levels
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IEC 60839-7-3	Alarm systems - Part 7-3: Message formats and protocols for serial data interfaces in alarm transmission systems - Common data link layer protocol	20/3/2001	Gives data link layer message structure, formats and transmission procedures which should be used at standard serial data interfaces in alarm transmission systems where the transmission network employed does not offer a standard protocol. Equally applicable to the transmission of alarms and other messages to/from intrusion, fire, access control and social alarm systems and to the transmission of information to/from other similar systems.	communications	Emergency Services	Information Technology	<p>FOREWORD</p> <p>Clause</p> <p>1 Scope</p> <p>2 Normative references</p> <p>3 Definitions</p> <p>4 Abbreviations</p> <p>5 General</p> <p>6 Data link data block</p> <p>7 Basic transmission protocol</p> <p>7.1 Message time-out</p> <p>7.2 Restart time-out</p> <p>7.3 Network addresses</p> <p>7.4 MASTER initialization</p> <p>7.5 SLAVE initialization</p> <p>7.6 Data link layer authentication (DLLA) function</p> <p>7.7 Normal state</p> <p>7.8 Multipoint operation</p> <p>7.9 Wait state</p> <p>7.10 Message From MASTER</p> <p>7.11 SLAVE to SLAVE communications</p> <p>7.12 General protocol</p> <p>7.12.1 Reception errors</p> <p>7.12.2 Response</p> <p>7.12.3 Failure to respond</p> <p>7.12.4 Re-initialization of SLAVES</p>
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IEC 60839-7-4	Alarm systems - Part 7-4: Message formats and protocols for serial data interfaces in alarm transmission systems - Common transport layer protocol	20/3/2001	Provides the transport layer message structure, formats and transmission procedures to be used at standard interfaces in alarm transmission systems. Equally applicable to the transmission of alarms and other messages to/from intrusion, fire, access control and social alarm systems and to the transmission of information to/from other similar systems.	communications	Emergency Services	Information Technology		<p>FOREWORD</p> <ol style="list-style-type: none"> 1 Scope 2 Normative references 3 Definitions 4 Abbreviations 5 General 6 Transport layer message format <ol style="list-style-type: none"> 6.1 Transmission of transport layer data block 6.2 Transport layer header 7 Authentication <ol style="list-style-type: none"> 7.1 Configuration 7.2 Initialization 7.3 Change of secondary key 7.4 Failure of synchronization 7.5 Size of keys 8 Encryption 9 Message authentication code (MAC) 10 Standard algorithm <p>Annex A (normative) Transport layer messages</p>
IEC 60839-7-5	Alarm systems - Part 7-5: Message formats and protocols for serial data interfaces in alarm transmission systems - Alarm system interfaces employing a two-wire configuration in accordance with ISO/IEC 8482	20/3/2001	Defines the requirements for standard interfaces using a two-wire connection employing ISO/IEC 8482 signalling for use between the control and indicating equipment (CIE) of an alarm system and one or more alarm system transceivers connected to alarm transmission systems. It gives a flexible interface allowing the connection of a single master CIE to a number of devices in accordance with ISO/IEC 8482 which may be alarm system transceivers or slave CIE.	communications	Emergency Services	Information Technology		<p>FOREWORD</p> <ol style="list-style-type: none"> 1 Scope 2 Normative references 3 Definitions 4 Abbreviations 5 Layer 7 - Application functions 6 Layer 4 - Transport 7 Layer 2 - Data link 8 Layer 1 - Physical <ol style="list-style-type: none"> 8.1 Transmitted octets 8.2 Signal levels 8.3 Transmission rate

IEC 60839-7-6	Alarm systems - Part 7-6: Message formats and protocols for serial data interfaces in alarm transmission systems - Alarm system interfaces employing ITU-T Recommendation V.24/V.28 signalling	20/3/2001	Gives the requirements for standard interfaces employing ITU-T V.24/V.28 signalling for communications between the control and indicating equipment of an alarm system and transmission equipment used for remote communications, where the transmission equipment is general purpose equipment, not exclusively designed for the alarms industry.	communications	Emergency Services	Information Technology		<p>FOREWORD</p> <p>1 Scope</p> <p>2 Normative references</p> <p>3 Definitions</p> <p>4 Abbreviations</p> <p>5 Layer 7 - Application functions</p> <p>6 Layer 4 - Transport</p> <p>7 Layer 3 - Network</p> <p>8 Notification of transmission errors</p> <p>9 Layer 2 - Data link</p> <p>10 Signal levels</p>
IEC 60839-7-7	Alarm systems - Part 7-7: Message formats and protocols for serial data interfaces in alarm transmission systems - Alarm system interfaces for plug-in alarm system transceivers	20/3/2001	Gives the requirements for standard interfaces between the CIE of an alarm system and an alarm system transceiver where the alarm system transceiver is intended to plug into a standard space inside the CIE of the alarm system.	communications	Emergency Services	Information Technology		<p>FOREWORD</p> <p>1 Scope</p> <p>2 Normative references</p> <p>3 Definitions</p> <p>4 Abbreviations</p> <p>5 Layer 7 - Application functions</p> <p>6 Layer 4 - Transport</p> <p>7 Notification of transmission errors</p> <p>8 Layer 2 - Data link</p> <p>9 Layer 1 - Physical</p> <p>9.1 Transmitted octets</p> <p>9.2 Signal levels</p> <p>9.3 Transmission rate</p> <p>10 Layer 0 - Mechanical - Option 1</p> <p>10.1 Equipment outline</p> <p>10.2 Connector</p> <p>11 Layer 0 - Mechanical - Option 2</p> <p>11.1 Equipment outline</p> <p>11.2 Connector</p> <p>12 Layer 0 - Mechanical - Option 3</p> <p>Figures</p>

IEC 60870-5-7 TS Ed. 1.0	Telectontrol equipment and systems - Security extensions to IEC 60870-5-101 and IEC 60870-5-104 protocols (IEC 62351-5 secure authentication)			communications	Emergency Services	Information Technology		
IEC 62443-2-1 Ed. 1.0	Industrial communication networks - network and system security - Part 2-1: Establishing an industrial automation and control system security program	10/11/2010	Describes the elements necessary to establish a cyber security management system (CSMS) for industrial automation and control systems (IACS) and provides guidance on how to develop those elements.	Information Technology				<p>FOREWORD</p> <p>0 INTRODUCTION</p> <p>1 Scope</p> <p>2 Normative references</p> <p>3 Terms, definitions, abbreviated terms, acronyms, and conventions</p> <p>4 Elements of a cyber security management system</p> <p>Annex A (informative) - Guidance for developing the elements of a CSMS</p> <p>Annex B (informative) - Process to develop a CSMS</p> <p>Annex C (information) - Mapping of requirements to ISO/IEC 27001</p> <p>Bibliography</p>

IEC 62676-3	Video surveillance systems for use in security applications - Part 3: Analog and digital video interfaces	22/7/2013	Defines physical, electrical and software interface (non-IP) specifications of analog and digital video interface in video surveillance systems (so far called CCTV) applications.	Information Technology				<p>FOREWORD</p> <p>INTRODUCTION</p> <p>1 Scope</p> <p>2 Normative references</p> <p>3 Terms, definitions and abbreviations</p> <p>4 General information</p> <p>5 Electrical interfaces</p> <p>6 Detailed analog (composite) video signal transmission requirements</p> <p>7 Analog video signal transmission test conditions</p> <p>8 Analog video signal transmission performance tests</p> <p>Annex A (normative) - Test patterns</p> <p>Annex B (normative) - Chrominance to luminance gain and delay charts</p> <p>Bibliography</p>
IEC/ISO 31010	RISK MANAGEMENT - RISK ASSESSMENT TECHNIQUES	1/11/2009	Specifies guidance on selection and application of systematic techniques for risk assessment.	Business Continuity				<p>FOREWORD</p> <p>INTRODUCTION</p> <p>1 Scope</p> <p>2 Normative references</p> <p>3 Terms and definitions</p> <p>4 Risk assessment concepts</p> <p>5 Risk assessment process</p> <p>6 Selection of risk assessment techniques</p> <p>Annex A (informative) - Comparison of risk assessment techniques</p> <p>Annex B (informative) - Risk assessment techniques</p> <p>Bibliography</p>
IIAR 1	–Definitions and Terminology used in IIAR standards			Commercial Facilities				

IIAR 2	Safe design of Ammonia Refrigeration systems			Commercial Facilities				
IIAR 3	Ammonia refrigeration valves			Commercial Facilities				
IIAR 4	Installation of ammonia refrigeration systems	2014		Commercial Facilities				
IIAR 5	Start-up and commissioning of Ammonia Refrigeration Systems			Commercial Facilities				
IIAR 6	Maintenance and Inspection of Ammonia Refrigeration Systems	expected 2015		Commercial Facilities				
IIAR 7	Development of Standard Operating Procedures for Ammonia Refrigeration Systems.			Commercial Facilities				
IIAR 8	Decommissioning of Ammonia Refrigeration Facilities	2014		Commercial Facilities				
IMO 1581	GUIDANCE DOCUMENT ON THE IMPLEMENTATION OF AN INCIDENT MANAGEMENT SYSTEM	19/09/2012	Specifies guidance on the establishment of an incident management system (IMS) for marine pollution incidents.	Water and Wastewater Systems	Emergency Services			

ISO 11238	Health informatics - Identification of medicinal products - Data elements and structures for the unique identification and exchange of regulated information on substances	1/11/2012	Specifies an information model to define and identify substances within medicinal products or substances used for medicinal purposes, including dietary supplements, foods and cosmetics.	Healthcare and Public Health				Foreword Introduction 1 Scope 2 Terms, definitions, symbols and abbreviated terms 3 Requirements Annex A (informative) - Existing identifiers and molecular structure representations Bibliography
ISO 11428	Ergonomics -- Visual danger signals -- General requirements, design and testing	1/12/1996		communications				
ISO 11429	Ergonomics -- System of auditory and visual danger and information signals	15/12/1996	Gives a system of danger and information signals with the different degrees of urgency being taken into account. Applies to all danger and information signals which have to be clearly perceived and differentiated as specified in ISO/TR 12100-2: 1992. Does not apply to certain fields which are covered by specific standards or other conventions in force.	communications				1. Scope 2. Normative references 3. Definitions 4. Ergonomic principles for the design and application of auditory and visual signals 4.1 General 4.2 Principles for distinctive characters 4.3 Qualities of auditory signals 4.4 Qualities of visual signals 5. Systems of auditory and visual signals 5.1 Scheme of purpose and character 5.2 Scheme of auditory signal character 5.3 Scheme of visual signal colours 6. Testing Annex A Bibliography

ISO 11665-8	Measurement of radioactivity in the environment -- Air -- Part 8: Radon-222 in buildings: Methodologies for screening and additional investigations	1/11/2012	Describes requirements for the determination of the activity concentration of radon in all types of buildings.	Nuclear Reactors, Materials, and Waste				<p>Foreword</p> <p>Introduction</p> <p>1 Scope</p> <p>2 Normative references</p> <p>3 Terms, definitions and symbols</p> <p>4 Organization of the measuring stages</p> <p>5 Initial investigations</p> <p>6 Additional investigations</p> <p>7 Immediate post-mitigation testing of the technical solutions applied</p> <p>8 Control of the effectiveness of the technical solutions applied</p> <p>9 Control of the sustainability</p> <p>Annex A (informative) - Organization of radon measuring phases in a building</p> <p>Annex B (informative) - Examples of underground buildings and buried levels</p> <p>Annex C (informative) - Initial investigation report</p> <p>Annex D (informative) - Example of analysis of initial investigation measurement results</p>
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ISO 11665-8	MEASUREMENT OF RADIOACTIVITY IN THE ENVIRONMENT - AIR: RADON-222 - PART 8: METHODOLOGIES FOR INITIAL AND ADDITIONAL INVESTIGATIONS IN BUILDINGS	1/11/2012	Describes requirements for the determination of the activity concentration of radon in all types of buildings.	Nuclear Reactors, Materials, and Waste				Foreword Introduction 1 Scope 2 Normative references 3 Terms, definitions and symbols 4 Organization of the measuring stages 5 Initial investigations 6 Additional investigations 7 Immediate post-mitigation testing of the technical solutions applied 8 Control of the effectiveness of the technical solutions applied 9 Control of the sustainability Annex A (informative) - Organization of radon measuring phases in a building Annex B (informative) - Examples of underground buildings and buried levels Annex C (informative) - Initial investigation report Annex D (informative) - Example of analysis of initial investigation measurement results Bibliography
ISO 11704	Water quality - Measurement of gross alpha and beta activity concentration in non-saline water - Liquid scintillation counting method	1/7/2010	Defines a method for the determination of gross alpha and gross beta activity in waters for radionuclides, which are not volatile at 80 Degrees C.	Water and Wastewater Systems				Foreword 1 Scope 2 Normative references 3 Symbols, definitions and units 4 Principle 5 Reagents and equipment 6 Sampling 7 Procedure 8 Expression of results 9 Interference control 10 Test report Bibliography

ISO 11731-2	Water quality -- Detection and enumeration of Legionella -- Part 2: Direct membrane filtration method for waters with low bacterial counts	1/5/2004	Explains a monitoring method for the isolation and enumeration of Legionella organisms in water intended for human use (e.g. hot and cold water, water used for washing), for human consumption and for treated bathing waters (e.g. swimming pools).	Water and Wastewater Systems				<ul style="list-style-type: none"> Foreword 1 Scope 2 Normative references 3 Terms and definitions 4 Safety 5 Principle 6 Culture media and reagents 7 Apparatus 8 Sampling 9 Procedure 10 Expression of results 11 Test report
ISO 11784	Radio frequency identification of animals -- Code structure	1/6/2010	Defines the structure of the radio-frequency (RF) identification code for animals.	Information Technology	Food and Agriculture			<ul style="list-style-type: none"> Foreword 1 Scope 2 Conformance 3 Normative reference 4 Definitions 5 Description of code structure

ISO 11929

Determination of the characteristic limits (decision threshold, detection limit and limits of the confidence interval) for measurements of ionizing radiation - Fundamentals and application

1/3/2010

Describes a procedure, in the field of ionizing radiation metrology, for the calculation of the "decision threshold", the "detection limit" and the "limits of the confidence interval" for a non-negative ionizing radiation measurand, when counting measurements with preselection of time or counts are carried out, and the measurand results from a gross count rate and a background count rate as well as from further quantities on the basis of a model of the evaluation.

Nuclear Reactors, Materials, and Waste

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Annex B (normative) - Various applications
Annex C (normative) - Applications to counting spectrometric measurements
Annex D (informative) - Application examples
Annex E (informative) - Distribution function of the standardized normal distribution
Annex F (informative) - Explanatory notes
Bibliography

ISO 12794

Nuclear energy -- Radiation protection -- Individual thermoluminescence dosimeters for extremities and eyes

2/3/2000

Gives performance criteria and tests to determine the performance of thermoluminescence dosimeters meant to be used for measuring radiation doses to the eyes and extremities for photons from 14 keV to 3 MeV and beta radiation from 0,5 MeV to 3 MeV. The performance is assessed in all cases under laboratory conditions which may not simulate conditions adequately for those actually experienced in personal dosimetry.

Nuclear Reactors, Materials, and Waste

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8 Test methods
9 Certification
Annex A (normative) Reference conditions and standard test conditions
Annex B (normative) Confidence limits
Annex C (normative) Performance tests
Annex D (informative) Determination of evaluated value (E) from readout values
Annex E (normative) Conversion tables
Bibliography

ISO 13491-2	Banking -- Secure cryptographic devices (retail) - Part 2: Security compliance checklists for devices used in financial transactions	15/6/2005	Provides checklists to be used in the evaluation of secure cryptographic devices (SCDs) incorporating cryptographic processes in a magnetic stripe card environment.	Financial Services				<p>Foreword</p> <p>Introduction</p> <p>1 Scope</p> <p>2 Normative references</p> <p>3 Terms and definitions</p> <p>4 Use of security compliance checklists</p> <p>Annex A (normative) Physical, logical and device management characteristics common to all secure cryptographic devices</p> <p>Annex B (normative) Devices with PIN entry functionality</p> <p>Annex C (normative) Devices with PIN management functionality</p> <p>Annex D (normative) Devices with message authentication functionality</p> <p>Annex E (normative) Devices with key generation functionality</p> <p>Annex F (normative) Devices with key transfer and loading functionality</p> <p>Annex G (normative) Devices with digital signature functionality</p>
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ISO 13822	BASES FOR DESIGN OF STRUCTURES - ASSESSMENT OF EXISTING STRUCTURES	1/8/2010	Gives general requirements and procedures for the assessment of existing structures (buildings, bridges, industrial structures, etc.) based on the principles of structural reliability and consequences of failure.	Commercial Facilities	Government Facilities	Residential Facilities		<p>Foreword</p> <p>Introduction</p> <p>1 Scope</p> <p>2 Normative reference</p> <p>3 Terms and definitions</p> <p>4 General framework of assessment</p> <p>5 Data for assessment</p> <p>6 Structural analysis</p> <p>7 Verification</p> <p>8 Assessment based on satisfactory past performance</p> <p>9 Interventions</p> <p>10 Report</p> <p>11 Judgement and decision</p> <p>Annex A (informative) - Hierarchy of terms</p> <p>Annex B (informative) - Flowchart for the general assessment of existing structures</p> <p>Annex C (informative) - Updating of measured quantities</p> <p>Annex D (informative) - Testing for static and dynamic properties of structures</p> <p>Annex E (informative) - Assessment of time-dependent reliability</p>
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ISO 13823	GENERAL PRINCIPLES ON THE DESIGN OF STRUCTURES FOR DURABILITY	15/06/2008	Describes general principles and recommends procedures for the verification of the durability of structures subject to known or foreseeable environmental actions, including mechanical actions, causing material degradation leading to failure of performance.	Commercial Facilities	Government Facilities	Residential Facilities		Foreword Introduction 1 Scope 2 Normative references 3 Terms and definitions 4 Symbols 5 Application 6 Basic concepts for verifying durability 6.1 General 6.2 Structure environment 6.3 Transfer mechanisms 6.4 Environmental action 6.5 Action effects 6.6 Limit states 7 Durability requirements 7.1 Basic durability requirement 7.2 Formats for checking durability 8 Design life of a structure and its components, t[D] 8.1 Structure 8.2 Components 8.3 Component service life related to the design life of the structure 8.4 Difficulty and cost of maintenance or replacement
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ISO 13824	BASES FOR DESIGN OF STRUCTURES - GENERAL PRINCIPLES ON RISK ASSESSMENT OF SYSTEMS INVOLVING STRUCTURES	15/11/2009	Describes general principles of risk assessment for systems involving structures.	Commercial Facilities	Government Facilities	Residential Facilities		<p>Foreword</p> <p>Introduction</p> <p>1 Scope</p> <p>2 Normative references</p> <p>3 Terms and definitions</p> <p>4 General framework of risk assessment of systems involving structures</p> <p>5 Establishment of structural engineering context</p> <p>6 Definition of system</p> <p>7 Identification of hazards and consequences</p> <p>8 Risk estimation</p> <p>9 Risk evaluation</p> <p>10 Evaluation of options for risk treatment</p> <p>11 Report</p> <p>Annex A (informative) - Principles of risk assessment</p> <p>Annex B (informative) - Examples of extraordinary events and exceptional structures for risk assessment</p> <p>Annex C (informative) - Techniques for treatment of expert opinions</p>
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ISO 13985:2006	Liquid hydrogen - Land vehicle fuel tanks	1/11/2006	Describes the construction requirements for refillable fuel tanks for liquid hydrogen used in land vehicles as well as the testing methods required to ensure that a reasonable level of protection from loss of life and property resulting from fire and explosion is provided.	Energy	Emergency Services			Foreword Introduction 1 Scope 2 Normative references 3 Terms and definitions 4 Requirements 4.1 General requirements 4.2 Mechanical stresses 4.3 Thermal stresses 4.4 Materials 4.5 Design 4.6 Insulation 4.7 Accessories 4.8 Manufacturing and assembly 5 Type tests 5.1 Approval of new designs 5.2 Inner tank burst pressure test 5.3 Thermal autonomy test 5.4 Maximum filling level test 5.5 Accessory type tests 6 Routine tests and inspection 6.1 General 6.2 Pressure test 6.3 Leak test 6.4 Verification of the dimensions 6.5 Destructive and non-destructive tests of
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ISO 14040

ENVIRONMENTAL
MANAGEMENT - LIFE CYCLE
ASSESSMENT - PRINCIPLES
AND FRAMEWORK

1/7/2006

Describes the principles and framework for life cycle assessment (LCA) including: definition of the goal and scope of the LCA, the life cycle inventory analysis (LCI) phase, the life cycle impact assessment (LCIA) phase, the life cycle interpretation phase, reporting and critical review of the LCA, limitations of the LCA, the relationship between the LCA phases, and conditions for use of value choices and optional elements.

Business Continuity

Societal

Foreword
Introduction
1 Scope
2 Normative references
3 Terms and definitions
4 General description of life cycle assessment (LCA)
4.1 Principles of LCA
4.2 Phases of an LCA
4.3 Key features of an LCA
4.4 General concepts of product systems
5 Methodological framework
5.1 General requirements
5.2 Goal and scope definition
5.3 Life cycle inventory analysis (LCI)
5.4 Life cycle impact assessment (LCIA)
5.5 Life cycle interpretation
6 Reporting
7 Critical review
7.1 General
7.2 Need for critical review
7.3 Critical review processes
Annex A (informative) Application of LCA
Bibliography

ISO 14044	ENVIRONMENTAL MANAGEMENT - LIFE CYCLE ASSESSMENT - REQUIREMENTS AND GUIDELINES	1/7/2006	Specifies requirements and provides guidelines for life cycle assessment (LCA) including: definition of the goal and scope of the LCA, the life cycle inventory analysis (LCI) phase, the life cycle impact assessment (LCIA) phase, the life cycle interpretation phase, reporting and critical review of the LCA, limitations of the LCA, relationship between the LCA phases, and conditions for use of value choices and optional elements.	Business Continuity	Societal			<p>Foreword</p> <p>Introduction</p> <p>1 Scope</p> <p>2 Normative references</p> <p>3 Terms and definitions</p> <p>4 Methodological framework for LCA</p> <p>4.1 General requirements</p> <p>4.2 Goal and scope definition</p> <p>4.3 Life cycle inventory analysis (LCI)</p> <p>4.4 Life cycle impact assessment (LCIA)</p> <p>4.5 Life cycle interpretation</p> <p>5 Reporting</p> <p>5.1 General requirements and considerations</p> <p>5.2 Additional requirements and guidance for third-party reports</p> <p>5.3 Further reporting requirements for comparative assertion intended to be disclosed to the public</p> <p>6 Critical review</p> <p>6.1 General</p> <p>6.2 Critical review by internal or external expert</p>
ISO 14644-8	Cleanrooms and associated controlled environments - Part 8: Classification of airborne molecular contamination	15/2/2013	Specifies the classification of air chemical cleanliness (ACC) in cleanrooms and associated controlled environments, in terms of airborne concentrations of specific chemical substances (individual, group or category) and provides a protocol to include test methods, analysis and time-weighted factors within the specification for classification.	Commercial Facilities	Government Facilities			<p>Foreword</p> <p>Introduction</p> <p>1 Scope</p> <p>2 Normative references</p> <p>3 Terms and definitions</p> <p>4 Classification</p> <p>5 Demonstration of compliance</p> <p>Annex A (informative) - Parameters for consideration</p> <p>Annex B (informative) - Typical contaminants</p> <p>Annex C (informative) - Typical methods of measurement</p> <p>Annex D (informative) - Consideration of specific requirements for separative devices</p> <p>Bibliography</p>

ISO 14963	MECHANICAL VIBRATION AND SHOCK - GUIDELINES FOR DYNAMIC TESTS AND INVESTIGATIONS ON BRIDGES AND VIADUCTS	1/12/2003	Gives guidelines for dynamic tests and investigations on bridges and viaducts. Classifies the testing as a function of construction and usage, indicates the types of investigation and control for individual structural parts and whole structures, lists the equipment required for excitation and measurement, and classifies the techniques of investigation with reference to suitable methods for signal processing, data presentation and reporting.	Water and Wastewater Systems	Energy	Transportation Systems		<p>Foreword</p> <p>Introduction</p> <p>1 Scope</p> <p>2 Normative references</p> <p>3 Terms and definitions</p> <p>4 Classification</p> <p>4.1 General</p> <p>4.2 Type of superstructure</p> <p>4.3 Static design, methods of construction and substructure</p> <p>4.4 Function classification</p> <p>5 General criteria for testing</p> <p>5.1 General</p> <p>5.2 Choice of test techniques</p> <p>5.3 Choice of excitation methods</p> <p>5.4 Choice of response measuring system</p> <p>6 Testing equipment</p> <p>6.1 Excitation equipment</p> <p>6.2 Measurement equipment</p> <p>6.3 Control, acquisition and analysis systems</p> <p>7 Techniques of investigation</p> <p>7.1 General considerations</p> <p>7.2 Tests using artificial excitation</p> <p>7.3 Ambient natural actions</p> <p>8 Testing and inspection</p>
ISO 15141-2	Foodstuffs -- Determination of ochratoxin A in cereals and cereal products -- Part 2: High performance liquid chromatographic method with bicarbonate clean up	22/10/1998	Defines a method that determines ochratoxin A (OTA) at levels that are greater than 3 mg/kg.	Food and Agriculture				<p>Foreword</p> <p>1 Scope</p> <p>2 Normative references</p> <p>3 Principle</p> <p>4 Reagents</p> <p>5 Apparatus and equipment</p> <p>6 Procedure</p> <p>7 Calculation</p> <p>8 Precision</p> <p>9 Test report</p> <p>Annex A (informative) Precision data</p> <p>Annex B (informative) Bibliography</p>

ISO 15382	Nuclear energy -- Radiation protection -- Procedure for radiation protection monitoring in nuclear installations for external exposure to weakly penetrating radiation, especially to beta radiation	1/4/2002	Describes a procedure for radiation protection monitoring in nuclear installations for external exposure to weakly penetrating radiation, especially to beta radiation and describes the procedure in radiation protection monitoring for external exposure to weakly penetrating radiation in nuclear installations.	Nuclear Reactors, Materials, and Waste				<p>Foreword</p> <p>Introduction</p> <p>1 Scope</p> <p>2 Normative reference</p> <p>3 Terms and definitions</p> <p>4 Radiation protection planning</p> <p>5 Characterization of radiation fields</p> <p>6 Area dose-equivalent rate measurements</p> <p>7 Personal dosimetry</p> <p>8 Special cases</p> <p>9 Assessment of partial-body doses</p> <p>10 Documentation of partial-body doses</p> <p>Annex A (informative) Investigation levels in national regulations</p> <p>Annex B (informative) Examples of radionuclides emitting beta radiation of low maximum energy</p> <p>Annex C (informative) Examples of equivalent dose-rate factors for skin contamination</p> <p>Bibliography</p>
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ISO 15589-1	PETROLEUM AND NATURAL GAS INDUSTRIES - CATHODIC PROTECTION OF PIPELINE TRANSPORTATION SYSTEMS - PART 1: ON-LAND PIPELINES	15/11/2003	Provides requirements and gives recommendations for the pre-installation surveys, design, materials, equipment, fabrication, installation, commissioning, operation, inspection and maintenance of cathodic protection systems for on-land pipelines, as defined in ISO 13623, for the petroleum and natural gas industries. Applicable to buried carbon steel, stainless steel pipelines on land, retrofits, modifications and repairs made to existing pipeline systems.	Energy	Transportation Systems			Foreword Introduction 1 Scope 2 Normative references 3 Terms and definitions 4 Symbols and abbreviations 5 Design requirements 5.1 General 5.2 Design information 5.3 Criteria for CP 5.4 Predesign investigations 5.5 Electrical isolation 5.6 Electrical earthing 5.7 Electrical continuity 5.8 Current requirements 5.9 Type of CP system and selection of sites 6 Impressed-current systems 6.1 Power supply 6.2 Groundbeds 6.3 Current output control and distribution 7 Galvanic-anode systems 7.1 General 7.2 Zinc anodes 7.3 Magnesium anodes 7.4 Anode backfill 7.5 Cables and cable connections 8 Monitoring facilities 8.1 General 8.2 Monitoring stations (test posts) 8.3 Bonding to other pipelines 8.4 Test facilities at cased crossings 8.5 Test facilities at isolating joints 8.6 Drain-point test facilities 8.7 Miscellaneous monitoring facilities
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ISO 15686-1	BUILDINGS AND CONSTRUCTED ASSETS - SERVICE LIFE PLANNING - PART 1: GENERAL PRINCIPLES AND FRAMEWORK	15/5/2011	Specifies general principles for service life planning and a systematic framework for undertaking service life planning of a planned building or construction work throughout its life cycle (or remaining life cycle for existing buildings or construction works).	Commercial Facilities	Government Facilities	Residential Facilities		Foreword 0 Introduction 1 Scope 2 Normative references 3 Terms and definitions 4 Service life planning and building design 5 Service life estimation 6 Financial and environmental costs over time 7 Obsolescence, adaptability and re- use Annex A (informative) - Agents affecting the service life of building components Annex B (informative) - Service life planning in the design process Bibliography
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ISO 15686-10	BUILDINGS AND CONSTRUCTED ASSETS - SERVICE LIFE PLANNING - PART 10: WHEN TO ASSESS FUNCTIONAL PERFORMANCE		Applies to any scope of holdings, whether a set (or portfolio) of buildings, a single building (large or small) or a facility which is part of a building (such as one group of spaces, one floor or several floors).	Commercial Facilities	Government Facilities	Residential Facilities		<p>Foreword</p> <p>1 Scope</p> <p>2 Normative references</p> <p>3 Terms and definitions</p> <p>4 Assessing functional performance in service life planning</p> <p>5 Estimation of risk and cost consequences due to gaps</p> <p>Annex A (informative) - Concepts of functionality and serviceability</p> <p>Annex B (informative) - Derivation of stages in the service life from other International Standards</p> <p>Annex C (informative) - Typical actions and functions at each stage of the whole life</p> <p>Annex D (informative) - Consider change as well as degradation</p> <p>Annex E (informative) - Tools to prioritize projects and allocate resources</p> <p>Bibliography</p>
ISO 15686-2	BUILDINGS AND CONSTRUCTED ASSETS - SERVICE LIFE PLANNING - PART 2: SERVICE LIFE PREDICTION PROCEDURES		Specifies procedures that facilitate service life predictions of building components, based on technical and functional performance.	Commercial Facilities	Government Facilities	Residential Facilities		<p>Foreword</p> <p>Introduction</p> <p>1 Scope</p> <p>2 Normative references</p> <p>3 Terms, definitions and abbreviated terms</p> <p>4 Methodology</p> <p>5 Methodological framework</p> <p>6 Critical review</p> <p>7 Reporting</p> <p>Annex A (informative) - Guidance on process of SLP</p> <p>Bibliography</p>

ISO 15686-7	BUILDINGS AND CONSTRUCTED ASSETS - SERVICE LIFE PLANNING - PART 7: PERFORMANCE EVALUATION FOR FEEDBACK OF SERVICE LIFE DATA FROM PRACTICE		Provides a generic basis for performance evaluation for feedback of service life data from existing buildings and constructed assets, including a definition of the terms to be used and the description of how the (technical) performance can be described and documented to ensure consistencies.	Commercial Facilities	Government Facilities	Residential Facilities		<p>Foreword</p> <p>Introduction</p> <p>1 Scope</p> <p>2 Normative references</p> <p>3 Terms and definitions</p> <p>4 Methodological framework</p> <p>5 Performance surveys</p> <p>Annex A (informative) - Guidance on</p> <p>Factor E - Environmental classification systems and methods for assessment in microenvironment</p> <p>Annex B (informative) - Prediction of (residual) service life on the object (single building) level and on the network level (population of buildings)</p> <p>Annex C (informative) - Worked example of RSL data records from "Inspection of buildings"</p> <p>Bibliography</p>
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ISO 15686-8	BUILDINGS AND CONSTRUCTED ASSETS - SERVICE-LIFE PLANNING - PART 8: REFERENCE SERVICE LIFE AND SERVICE-LIFE ESTIMATION		Describes guidance on the provision, selection and formatting of reference service-life data and on the application of these data for the purposes of calculating estimated service life using the factor method.	Commercial Facilities	Government Facilities	Residential Facilities	<p>Foreword</p> <p>Introduction</p> <p>1 Scope</p> <p>2 Normative references</p> <p>3 Terms and definitions</p> <p>4 Abbreviated terms</p> <p>5 Reference service life</p> <p>5.1 Reference service-life data</p> <p>5.2 Provision of reference service-life data</p> <p>5.3 Selection of data</p> <p>5.4 Formatting general data as reference service-life data</p> <p>6 Service-life estimation using the factor method</p> <p>6.1 General</p> <p>6.2 Factors and factor categories</p> <p>6.3 Application of the factor method</p> <p>6.4 Levels of application</p> <p>6.5 Probability distributions</p> <p>6.6 Format of estimated service life</p> <p>Annex A (normative) - Description of the factors and factor categories</p> <p>Annex B (informative) - Example of a reference service-life</p>
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ISO 16000-1	Indoor air -- Part 1: General aspects of sampling strategy	1/7/2004	Applies to indoor environments such as dwellings with living rooms, bedrooms, do-it-yourself rooms, recreation rooms and cellars, kitchens and bathrooms; workrooms or work places in buildings which are not subject to health and safety inspections in regard to air pollutants (for example, offices, sales premises); public buildings (for example hospitals, schools, kindergartens, sports halls, libraries, restaurants and bars, theatres, cinemas and other function rooms), and also cabins of vehicles.	Commercial Facilities	Government Facilities	Residential Facilities		<p>Foreword</p> <p>Introduction</p> <p>1 Scope</p> <p>2 Normative references</p> <p>3 Special characteristics of the indoor environment</p> <p>4 Measurement objective</p> <p>5 Sampling procedure</p> <p>6 Time of sampling</p> <p>7 Sampling duration and sampling frequency</p> <p>8 Sampling location</p> <p>9 Parallel outdoor air measurements</p> <p>Annex A (informative) Important types of indoor environment and sources of air pollutants</p> <p>Annex B (informative) Sources of indoor air pollutants</p> <p>Annex C (informative) Examples of substances and their sources</p> <p>Annex D (informative) Guidelines for information to be recorded during indoor air measurement</p> <p>Bibliography</p>
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ISO 16000-2	Indoor air -- Part 2: Sampling strategy for formaldehyde	1/7/2004	Helps to planning formaldehyde indoor pollution measurements. In the case of indoor air measurements, the careful planning of sampling and the entire measurement strategy are of particular significance, since the result of the measurement can have far-reaching consequences, for example, with regard to the need for remedial action or the success of such an action.	Commercial Facilities	Government Facilities	Residential Facilities	<p>Foreword</p> <p>Introduction</p> <p>1 Scope</p> <p>2 Normative references</p> <p>3 Sources and occurrence of formaldehyde</p> <p>4 Measurement techniques</p> <p>4.1 General</p> <p>4.2 Short-term monitoring</p> <p>4.3 Long-term monitoring</p> <p>4.4 Methods for screening tests</p> <p>5 Sampling strategy</p> <p>5.1 General</p> <p>5.2 Objectives of the measurement and conditions</p> <p>5.3 Time of sampling</p> <p>5.4 Duration of sampling and frequency of measurement</p> <p>5.5 Sampling location</p> <p>5.6 Reporting on results and uncertainties</p> <p>5.7 Quality assurance</p> <p>Annex A (informative) Properties of formaldehyde</p> <p>Annex B (informative) Overview of important sources and typical concentrations</p>
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ISO 16017-1	Indoor, ambient and workplace air -- Sampling and analysis of volatile organic compounds by sorbent tube/thermal desorption/capillary gas chromatography -- Part 1: Pumped sampling	23/11/2000	Provides guidelines for the sampling and analysis of volatile organic compounds (VOCs) in air. It applies to ambient, indoor and workplace atmospheres and the assessment of emissions from materials in small- or full-scale test chambers.	Commercial Facilities	Government Facilities	Residential Facilities		Foreword 1 Scope 2 Normative references 3 Terms and definitions 4 Principle 5 Reagents and materials 6 Apparatus 7 Sample tube conditioning 8 Calibration of pump 9 Sampling 10 Procedure 10.1 Safety precautions 10.2 Desorption and analysis 10.3 Calibration 10.4 Determination of sample concentration 10.5 Determination of desorption efficiency 11 Calculations 11.1 Mass concentration of analyte 11.2 Volume concentration of analyte 12 Interferences 13 Performance characteristics 14 Test report 15 Quality control Annex A (normative) Determination
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ISO 16017-2	Indoor, ambient and workplace air -- Sampling and analysis of volatile organic compounds by sorbent tube/thermal desorption/capillary gas chromatography -- Part 2: Diffusive sampling	15/5/2003	Provides general guidance for the sampling and analysis of volatile organic compounds (VOCs) in air. It is applicable to indoor, ambient and workplace air.	Commercial Facilities	Government Facilities	Residential Facilities	<p>Foreword</p> <p>1 Scope</p> <p>2 Normative references</p> <p>3 Principle</p> <p>4 Reagents and materials</p> <p>5 Apparatus</p> <p>6 Sample tube conditioning</p> <p>7 Sampling</p> <p>8 Procedure</p> <p>8.1 Safety precautions</p> <p>8.2 Desorption and analysis</p> <p>8.3 Calibration</p> <p>8.4 Determination of sample concentration</p> <p>8.5 Determination of desorption efficiency</p> <p>8.6 Calibration of uptake rate</p> <p>9 Calculations</p> <p>10 Interferences</p> <p>11 Performance characteristics</p> <p>12 Test report</p> <p>13 Quality control</p> <p>Annex A (informative) Operating principles of diffusive sampling</p> <p>Annex B (informative) Description of sorbent types</p>
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ISO 16200-1	Workplace air quality -- Sampling and analysis of volatile organic compounds by solvent desorption/gas chromatography -- Part 1: Pumped sampling method	15/8/2001	Describes general guidance for the sampling and analysis of volatile organic compounds (VOCs) in air by solvent desorption/gas chromatography using pumped sampling.	Commercial Facilities	Government Facilities			Foreword 1 Scope 2 Normative references 3 Principle 4 Reagents and materials 5 Apparatus 6 Sampling 7 Procedure 8 Calculations 9 Interferences 10 Precision and bias 11 Storage and transport 12 Test report 13 Quality control Annex A (informative) Description of sorbent types Annex B (informative) Equivalence of gas chromatographic stationary phases Annex C (informative) Determination of breakthrough volume Bibliography
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ISO 16200-2	Workplace air quality -- Sampling and analysis of volatile organic compounds by solvent desorption/gas chromatography -- Part 2: Diffusive sampling method	15/6/2000	General guidance is given for analysis and sampling of volatile organic compounds (VOCs) in air. It is applicable to a wide range of VOCs, including halogenated hydrocarbons, hydrocarbons, glycol ethers, ketones and alcohols and esters. Recommends a number of devices and sorbents for the sampling of these VOCs, each sorbent having a different range of applicability. Upper and lower limits ranges for sampling and analysis are covered. Batch differences of samples carried out are also covered.	Commercial Facilities	Government Facilities			<ul style="list-style-type: none"> 1 Scope 2 Normative references 3 Principle 4 Reagents and materials 5 Apparatus 6 Sampling 7 Procedure <ul style="list-style-type: none"> 7.1 Desorption 7.2 Analysis 7.3 Determination of desorption efficiency 7.4 Calibration of uptake rate 8 Calculations <ul style="list-style-type: none"> 8.1 General 8.2 Mass concentration of analyte 8.3 Volume concentration of analyte 8.4 Uptake rates 9 Interferences 10 Precision and bias 11 Storage and transport 12 Test report 13 Quality control Annex A (informative) Description of sorbent types Annex B (informative) Diffusive sampling rates (cm³/min) Annex C (informative) Equivalence
ISO 16587	MECHANICAL VIBRATION AND SHOCK - PERFORMANCE PARAMETERS FOR CONDITION MONITORING OF STRUCTURES		Explains the performance parameters for assessing the condition of structures, including types of measurement, factors for setting acceptable performance limits, data acquisition parameters for constructing uniform databases, and internationally accepted measurement guidance (e.g. terminology, transducer calibration, transducer mounting and approved transfer function techniques).	Commercial Facilities	Government Facilities	Residential Facilities		<ul style="list-style-type: none"> Foreword Introduction 1 Scope 2 Normative references 3 Terms and definitions 4 Monitored parameters and limits 5 Measurement procedure and data processing 6 Defect diagnosis Annex A (informative) Examples of performance parameters and measurement transducers and systems Bibliography

ISO 17734-1	Determination of organonitrogen compounds in air using liquid chromatography and mass spectrometry -- Part 1: Isocyanates using dibutylamine derivatives	1/12/2013	Provides general guidance for the sampling and analysis of airborne isocyanates in workplace air.	Commercial Facilities	Government Facilities			Foreword Introduction 1 Scope 2 Normative references 3 Principle 4 Reagents and materials 5 Preparation of standard solutions 6 Apparatus 7 Air sampling 8 Laboratory sample preparation 9 Instrumental settings 10 Data handling 11 Interferences 12 Determination of performance characteristics Annex A (informative) - Performance characteristics Annex B (informative) - Examples Annex C (informative) - Commercially available products Bibliography
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ISO 17776	PETROLEUM AND NATURAL GAS INDUSTRIES - OFFSHORE PRODUCTION INSTALLATIONS - GUIDELINES ON TOOLS AND TECHNIQUES FOR HAZARD IDENTIFICATION AND RISK ASSESSMENT	15/10/2000	Defines some principal techniques and tools commonly used for identification and assessment of hazards involved in offshore oil and gas exploration and production activities, including topographical and seismic surveys, drilling and well operations, field development, decommissioning, operations, and disposal together with the necessary logistical support of each of the activities. Provides guidance on ways the tools and techniques can assist in development of strategies to prevent hazardous events and mitigate and control any events that may arise.	Energy	Emergency Services	Commercial Facilities	Government Facilities	Foreword Introduction 1 Scope 2 Terms, definitions and abbreviated terms 2.1 Terms and definitions 2.2 Abbreviated terms 3 Hazards and risk assessment concepts 4 Methods for hazard identification and risk assessment 4.1 Selection of methods 4.2 Role of experience/judgement 4.3 Checklists 4.4 Codes and standards 4.5 Selection of structured review techniques 5 Risk management 5.1 General 5.2 Identification 5.3 Assessment 5.4 Risk reduction 6 Guidelines for use in specific activities Annex A (informative) Hazard identification and risk assessment concepts Annex B (informative) Structured review techniques Annex C (informative) Hazards identification and risk assessment considerations for offshore E&P activities Annex D (informative) Hazards checklist Bibliography
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ISO 17994	Water quality -- Criteria for establishing equivalence between microbiological methods	15/2/2014	Describes an evaluation procedure for comparing two methods with established performance characteristics according to ISO/TR 13843 and intended for the quantification of the same target group or species of microorganisms.	Water and Wastewater Systems				<p>Foreword</p> <p>Introduction</p> <p>1 Scope</p> <p>2 Normative references</p> <p>3 Terms, definitions and symbols</p> <p>4 Principle</p> <p>5 Basic requirements for a comparison study</p> <p>6 Calculations</p> <p>7 Evaluation</p> <p>Annex A (informative) - Flowchart</p> <p>Annex B (informative) - Comparison studies</p> <p>Annex C (informative) - Derivation of equation for calculation of the number of samples</p> <p>Annex D (informative) - Example of a two-sided evaluation</p> <p>Bibliography</p>
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ISO 18589-2	Measurement of radioactivity in the environment - Soil - Part 2: Guidance for the selection of the sampling strategy, sampling and pre-treatment of samples	1/12/2007	Specifies the general requirements, based on ISO 11074 and ISO/IEC 17025, for all steps in the planning (desk study and area reconnaissance) of the sampling and the preparation of samples for testing.	Food and Agriculture				Foreword Introduction 1 Scope 2 Normative references 3 Terms and definitions and symbols 4 Principle 5 Sampling strategy 5.1 Initial investigation 5.2 Types of sampling strategies 5.3 Selection of the sampling strategy 6 Sampling plan 6.1 Selection of sampling areas and units 6.2 Identification of sampling areas, units and points 6.3 Selection of field equipment 7 Sampling process 7.1 Collection of samples 7.2 Preparation of the sorted sample 7.3 Identification and packaging of samples 7.4 Transport and storage of samples 8 Pre-treatment of samples 8.1 Principle 8.2 Laboratory equipment
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ISO 18649	MECHANICAL VIBRATION - EVALUATION OF MEASUREMENT RESULTS FROM DYNAMIC TESTS AND INVESTIGATIONS ON BRIDGES	1/7/2004	Specifies methodology for the evaluation of results from dynamic tests and investigations on bridges and viaducts. It complements the procedure for conducting the tests as given in ISO 14963 and considers - the objectives of the dynamic tests, - the techniques for data analysis and system identification, - the modelling of the bridge, and - evaluation of the measured data.	Transportation Systems	Water and Wastewater Systems			<p>Foreword</p> <p>1 Scope</p> <p>2 Normative references</p> <p>3 Terms and definitions</p> <p>4 Vibration measurement</p> <p>4.1 General considerations</p> <p>4.2 Monitoring of a bridge during construction and for commissioning</p> <p>4.3 Monitoring of a bridge in service</p> <p>5 Data analysis and method of structural identification</p> <p>5.1 General</p> <p>5.2 Data analysis and domain</p> <p>5.3 Digitizing</p> <p>5.4 Identification of vibration characteristics in the time domain</p> <p>5.5 Identification of vibration characteristics in the frequency domain</p> <p>5.6 Structural identification and inverse analysis</p> <p>6 Modelling bridges and their surrounding environment</p> <p>6.1 Modelling bridge structures</p> <p>6.2 Modelling of traffic loads</p>
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ISO 19250	Water quality - Detection of Salmonella spp.	15/7/2010	Defines a method for the detection of Salmonella spp. (presumptive or confirmed) in water samples. It is possible that, for epidemiological purposes or during outbreak investigations, other media are also required.	Water and Wastewater Systems				<p>Foreword</p> <p>Introduction</p> <p>1 Scope</p> <p>2 Normative references</p> <p>3 Terms and definitions</p> <p>4 Principle</p> <p>5 Apparatus</p> <p>6 Sampling</p> <p>7 Culture media and reagents</p> <p>8 Procedure</p> <p>9 Expression of results</p> <p>10 Test report</p> <p>Annex A (normative) Diagram of procedure</p> <p>Annex B (normative) Composition and preparation of culture media and reagents</p> <p>Annex C (informative) Results of the interlaboratory trial</p> <p>Bibliography</p>
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ISO 19458	Water quality - Sampling for microbiological analysis	1/8/2006	Provides guidance on planning water sampling regimes, on sampling procedures for microbiological analysis and on transport, handling and storage of samples until analysis begins.	Water and Wastewater Systems				<p>Foreword</p> <p>Introduction</p> <p>1 Scope</p> <p>2 Normative references</p> <p>3 Sampling point</p> <p>4 Sampling technique</p> <p>5 Transport and storage</p> <p>Annex A (informative) A priori determination of the number of samples to analyse to determine the mean concentration of microbes in water with a given confidence, for quantitative determination derived by cultivation of microorganisms</p> <p>Annex B (informative) Recommended (R) and acceptable (A) values for maximum sample storage times including transport time and temperatures unless otherwise specified in specific standards</p>
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ISO 20121	EVENT SUSTAINABILITY MANAGEMENT SYSTEMS - REQUIREMENTS WITH GUIDANCE FOR USE	15/6/2012	Describes requirements for an event sustainability management system for any type of event or event-related activity, and provides guidance on conforming to those requirements.	Business Continuity	Societal			<p>Foreword</p> <p>Introduction</p> <p>1 Scope</p> <p>2 Normative references</p> <p>3 Terms and definitions</p> <p>4 Context of the organization</p> <p>5 Leadership</p> <p>6 Planning</p> <p>7 Support</p> <p>8 Operation</p> <p>9 Performance evaluation</p> <p>10 Improvement</p> <p>Annex A (informative) - Guidance on planning and implementing this International Standard</p> <p>Annex B (informative) - Supply chain management</p> <p>Annex C (informative) - Evaluation</p> <p>Bibliography</p>
ISO 21482	Ionizing-radiation warning - Supplementary symbol	15/2/2007	Specifies the symbol to warn of the presence of a dangerous level of ionizing radiation from a high-level sealed radioactive source that can cause death or serious injury if handled carelessly.	Nuclear Reactors, Materials, and Waste				<p>Foreword</p> <p>Introduction</p> <p>1 Scope</p> <p>2 Shape, proportions and colour of the symbol</p> <p>3 Application of the symbol</p> <p>Annex A (normative) Technical Specifications</p> <p>Bibliography</p>

ISO 21929-1	SUSTAINABILITY IN BUILDING CONSTRUCTION - SUSTAINABILITY INDICATORS - PART 1: FRAMEWORK FOR THE DEVELOPMENT OF INDICATORS AND A CORE SET OF INDICATORS FOR BUILDINGS	15/11/2011	Specifies a core set of indicators to take into account in the use and development of sustainability indicators for assessing the sustainability performance of new or existing buildings, related to their design, construction, operation, maintenance, refurbishment and end of life.	Commercial Facilities	Government Facilities	Residential Facilities		Foreword Introduction 1 Scope 2 Normative references 3 Terms and definitions 4 Framework of sustainability indicators 5 Core indicators 6 Development and use of a system of sustainability indicators Annex A (informative) - Indicators relevant to the assessment of the contribution of a building to sustainability and sustainable development Annex B (informative) - Development of qualitative indicators Bibliography
ISO 21930	SUSTAINABILITY IN BUILDING CONSTRUCTION - ENVIRONMENTAL DECLARATION OF BUILDING PRODUCTS	1/10/2007	Gives the principles and requirements for type III environmental declarations (EPD) of building products.	Commercial Facilities	Government Facilities	Residential Facilities		Foreword Introduction 1 Scope 2 Normative references 3 Terms and definitions 4 Units and abbreviated terms 4.1 Units 4.2 Abbreviated terms 5 General aspects of type III environmental product declarations (EPD) of building products 5.1 Objectives of EPD of building products 5.2 Involvement of interested parties 5.3 Responsibility for the EPD 5.4 Use of EPD of building products 5.5 Building products information modules 5.6 Comparability of EPD of building products 6 Methodological framework 6.1 General requirements 6.2 Product category rules (PCR) 7 Reporting 7.1 General 7.2 Project report 7.3 Project documentation 7.4 Rules for data confidentiality 8 Content of the EPD 8.1 Declaration of general information 8.2 Declaration of environmental aspects 9 Verification 9.1 Review and verification procedures Annex A (informative) - Product chain of a

ISO 21931-1	SUSTAINABILITY IN BUILDING CONSTRUCTION - FRAMEWORK FOR METHODS OF ASSESSMENT OF THE ENVIRONMENTAL PERFORMANCE OF CONSTRUCTION WORKS - PART 1: BUILDINGS	15/06/2010	Gives a general framework for improving the quality and comparability of methods for assessing the environmental performance of buildings and their related external works.	Commercial Facilities	Government Facilities	Residential Facilities		Foreword Introduction 1 Scope 2 Normative references 3 Terms and definitions 4 Principles for assessment of the environmental performance of buildings 5 Framework for methods of assessment of environmental performance of buildings Annex A (informative) - Consideration of social aspects, such as health and comfort, related to the indoor and local outdoor environment Annex B (informative) - Extent and application of the assessment method Annex C (informative) - Relationships between environmental aspects, impacts, issues and characteristics of the building Annex D (informative) - Graphical illustration of correlation and mapping of environmental issues to different life-cycle stages Bibliography
ISO 22300	Societal security -- Terminology	15/5/2012	Provides terms and definitions applicable to societal security to establish a common understanding so that consistent terms are used.	Societal				1 Scope 2 Terms and definitions Bibliography Alphabetical index

ISO 22301	SOCIETAL SECURITY - BUSINESS CONTINUITY MANAGEMENT SYSTEMS - REQUIREMENTS	15/5/2012	Describes requirements to plan, establish, implement, operate, monitor, review, maintain and continually improve a documented management system to protect against, reduce the likelihood of occurrence, prepare for, respond to, and recover from disruptive incidents when they arise.	Societal	business continuity			Foreword 0 Introduction 1 Scope 2 Normative references 3 Terms and definitions 4 Context of the organization 5 Leadership 6 Planning 7 Support 8 Operation 9 Performance evaluation 10 Improvement Bibliography
ISO 22311	SOCIETAL SECURITY - VIDEO-SURVEILLANCE - EXPORT INTEROPERABILITY	2012	Describes a common output file format that can be extracted from the video-surveillance contents collection systems (stand alone machines or large scale systems) by an exchangeable data storage media or through a network to allow end-users to access digital video-surveillance contents and perform their necessary processing.	Societal				
ISO 22313	SOCIETAL SECURITY - BUSINESS CONTINUITY MANAGEMENT SYSTEMS - GUIDANCE	15/12/2012	Gives guidance based on good international practice for planning, establishing, implementing, operating, monitoring, reviewing, maintaining and continually improving a documented management system that enables organizations to prepare for, respond to and recover from disruptive incidents when they arise.	Societal	business continuity			Foreword Introduction 1 Scope 2 Normative references 3 Terms and definitions 4 Context of the organization 5 Leadership 6 Planning 7 Support 8 Operation 9 Performance evaluation 10 Improvement Bibliography

ISO 22320	SOCIETAL SECURITY - EMERGENCY MANAGEMENT - REQUIREMENTS FOR INCIDENT RESPONSE	1/11/2011	Describes minimum requirements for effective incident response and provides the basics for command and control, operational information, coordination and cooperation within an incident response organization.	Societal	Emergency Services			Foreword Introduction 1 Scope 2 Normative references 3 Terms and definitions 4 Requirements for command and control 5 Requirements for operational information 6 Requirements for cooperation and coordination Annex A (informative) - Examples Annex B (normative) - Operational information process criteria Bibliography
ISO 22397	SOCIETAL SECURITY - GUIDELINES FOR ESTABLISHING PARTNERING ARRANGEMENTS	2013	Specifies guidance for partnering arrangements among organizations to manage multiple relationships for events impacting societal security.	Societal	Emergency Services			
ISO 22398	SOCIETAL SECURITY - GUIDELINES FOR EXERCISES	2013	Provides good practice and guidelines for an organization to plan, conduct, and improve its exercise projects which may be organized within an exercise programme.	Societal	Emergency Services			
ISO 22702	- Amendment 1: Clarification of requirements and addition of safety symbols	15/9/2008	Defines consumer-safety specification covering all flame-producing consumer products commonly known as utility lighters (also known as grill lighters, fireplace lighters, lighting rods or gas matches), and similar devices.	communications	Emergency Services			Foreword Introduction 1 Scope 2 Terms and definitions 3 Functional requirements 4 Structural-integrity requirements 5 Refilling of utility lighters 6 Instructions and warnings 7 Test methods 8 Product marking Annex A (informative) - Manufacturer's acceptance quality limits for specification and inset limits for flame characteristics in 3.2.2 to 3.2.7 Bibliography

ISO 22727	Graphical symbols - Creation and design of public information symbols - Requirements	1/11/2007	Specifies requirements for the creation and design of public information symbols.	communications	Emergency Services			<p>Foreword</p> <p>Introduction</p> <p>1 Scope</p> <p>2 Normative references</p> <p>3 Terms and definitions</p> <p>4 Creation procedure</p> <p>4.1 Preliminary phase</p> <p>4.2 Creation phase</p> <p>5 Assignment of meaning, function and image content to the public information symbol</p> <p>6 Design of the graphical symbol</p> <p>6.1 General</p> <p>6.2 Use of template</p> <p>6.3 Line width</p> <p>6.4 Image content</p> <p>6.5 Combination of graphical symbols or graphical symbol elements</p> <p>6.6 Standardized representations of symbol elements</p> <p>6.7 Characters</p> <p>6.8 Negation</p> <p>7 Layout of templates</p> <p>7.1 Public information symbols without negation bar</p> <p>7.2 Public information symbols with</p>
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ISO 23601	Safety identification - Escape and evacuation plan signs	15/2/2009	Describes design principles for displayed escape plans that contain information relevant to fire safety, escape, evacuation and rescue of the facility's occupants.	communications	Emergency Services			<ul style="list-style-type: none"> Foreword Introduction 1 Scope 2 Normative references 3 Terms and definitions 4 General 5 Design requirements 6 Size of plan elements 7 Contents and representation <ul style="list-style-type: none"> 7.1 Header 7.2 Overview plan 7.3 Escape plan detail 7.4 Safety notices 7.5 Legend 7.6 Other information 7.7 Use of colours <ul style="list-style-type: none"> 7.7.1 Escape routes 7.7.2 Safety signs 7.7.3 Point of location of the user 7.7.4 Background colour 7.7.5 Outline of facility structural elements 7.7.6 Header 7.7.7 Text 8 Materials 9 Installation and location 10 Inspection and revision
ISO 24409-2	Ships and marine technology - Design, location, and use of shipboard signs for fire protection, life-saving appliance, and means of escape -- Part 2: Catalogue	15/1/2014	Describes standardized signs and safety notices specifically for use on board ships. Each sign is categorized and indexed according to the safety message that is to be conveyed.	Transportation Systems	Emergency Services			<ul style="list-style-type: none"> 1 Scope 2 Normative references 3 Terms and definitions 4 Categorization of shipboard signs 5 Standardized shipboard safety sign and fire control plan signs Bibliography

ISO 28000

Specification for security management systems for the supply chain

15/9/2007

Describes the requirements for a security management system, including those aspects critical to security assurance of the supply chain. Security management is linked to many other aspects of business management.

Business Continuity

Emergency Services

Foreword
Introduction
1 Scope
2 Normative references
3 Terms and definitions
4 Security management system elements
4.1 General requirements
4.2 Security management policy
4.3 Security risk assessment and planning
4.4 Implementation and operation
4.5 Checking and corrective action
4.6 Management review and continual improvement
Annex A (informative)
Correspondence between ISO 28000:2007, ISO 14001:2004 and ISO 9001:2000
Bibliography

ISO 28001	Security management systems for the supply chain - Best practices for implementing supply chain security, assessments and plans - Requirements and guidance	15/10/2007	Describes requirements and guidance for organizations in international supply chains to: - develop and implement supply chain security processes; - establish and document a minimum level of security a supply chain(s) or segment of a supply chain; - assist in meeting the applicable authorized economic operator (AEO) criteria set forth in the World Customs Organization Framework of Standards and conforming national supply chain security programmes.	Business Continuity	Emergency Services			<p>Foreword</p> <p>Introduction</p> <p>1 Scope</p> <p>2 Normative references</p> <p>3 Terms and definitions</p> <p>4 Field of application</p> <p>4.1 Statement of application</p> <p>4.2 Business partners</p> <p>4.3 Internationally accepted certificates or approvals</p> <p>4.4 Business partners exempt from security declaration requirement</p> <p>4.5 Security reviews of business partners</p> <p>5 Supply chain security process</p> <p>5.1 General</p> <p>5.2 Identification of the scope of security assessment</p> <p>5.3 Conduction of the security assessment</p> <p>5.4 Development of the supply chain security plan</p> <p>5.5 Execution of the supply chain security plan</p> <p>5.6 Documentation and monitoring of the supply</p>
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ISO 28002	Security management systems for the supply chain -- Development of resilience in the supply chain -- Requirements with guidance for use	1/8/2011	Describes requirements for a resilience management policy in the supply chain to enable an organization to develop and implement policies, objectives, and programs, taking into account: - legal, regulatory and other requirements to which the organization subscribes, - information about significant risks, hazards and threats that may have consequences to the organization, its stakeholders, and on its supply chain, - protection of its assets and processes, and management of disruptive incidents.	Business Continuity	Emergency Services			<p>Foreword</p> <p>Introduction</p> <p>1 Scope</p> <p>2 Normative references</p> <p>3 Terms and definitions</p> <p>4 Requirements of Management System containing Resilience Policy</p> <p>Annex A (informative) - Informative guidance on the incorporation of this International Standard into a management standard</p> <p>Annex B (informative) - Informative Guidance on the Use of this International Standard</p> <p>Annex C (informative) - Terminology Conventions</p> <p>Annex D (informative) - Qualifiers to Application</p> <p>Bibliography</p>
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ISO 28003	Security management systems for the supply chain - Requirements for bodies providing audit and certification of supply chain security management systems	1/8/2007	Contains principles and requirements for bodies providing the audit and certification of supply chain security management systems according to management system specifications and standards such as ISO 28000.	Business Continuity	Emergency Services			<p>Foreword</p> <p>Introduction</p> <p>1 Scope</p> <p>2 Normative references</p> <p>3 Terms and definitions</p> <p>4 Principles for certification bodies</p> <p>4.1 General</p> <p>4.2 Impartiality</p> <p>4.3 Competence</p> <p>4.4 Responsibility</p> <p>4.5 Openness</p> <p>4.6 Confidentiality</p> <p>4.7 Resolution of complaints</p> <p>5 General requirements</p> <p>5.1 Legal and contractual matters</p> <p>5.2 Management of impartiality</p> <p>5.3 Liability and financing</p> <p>6 Structural requirements</p> <p>6.1 Organizational structure and top management</p> <p>6.2 Committee for safeguarding impartiality</p> <p>7 Resource requirements</p> <p>7.1 Competence of management and personnel</p> <p>7.2 Personnel involved in the certification activities</p>
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ISO 28003	Security management systems for the supply chain - Requirements for bodies providing audit and certification of supply chain security management systems	1/8/2007	Contains principles and requirements for bodies providing the audit and certification of supply chain security management systems according to management system specifications and standards such as ISO 28000.	Business Continuity	Emergency Services			Foreword Introduction 1 Scope 2 Normative references 3 Terms and definitions 4 Principles for certification bodies 4.1 General 4.2 Impartiality 4.3 Competence 4.4 Responsibility 4.5 Openness 4.6 Confidentiality 4.7 Resolution of complaints 5 General requirements 5.1 Legal and contractual matters 5.2 Management of impartiality 5.3 Liability and financing 6 Structural requirements 6.1 Organizational structure and top management 6.2 Committee for safeguarding impartiality 7 Resource requirements 7.1 Competence of management and personnel 7.2 Personnel involved in the certification activities
ISO 28004-1	SECURITY MANAGEMENT SYSTEMS FOR THE SUPPLY CHAIN - GUIDELINES FOR THE IMPLEMENTATION OF ISO 28000 - PART 1: GENERAL PRINCIPLES	1/8/2012	Specifies generic advice on the application of ISO 28000:2007, Specification for security management systems for the supply chain.	Business Continuity	Emergency Services			Foreword Introduction 1 Scope 2 Normative references 3 Terms and definitions 4 Security management system elements Annex A (informative) - Correspondence between ISO 28000:2007, ISO 14001:2004 and ISO 9001:2000 Bibliography

ISO 28004-2	SECURITY MANAGEMENT SYSTEMS FOR THE SUPPLY CHAIN - GUIDELINES FOR THE IMPLEMENTATION OF ISO 28000 - PART 2: GUIDELINES FOR ADOPTING ISO 28000 FOR USE IN MEDIUM AND SMALL SEAPORT OPERATIONS	1/2/2014	Describes supply chain risk and threat scenarios, procedures for conducting risks/threat assessments, and evaluation criteria for measuring conformance and effectiveness of the documented security plans in accordance with ISO 28000 and the ISO 28004 series implementation guidelines.	Business Continuity	Emergency Services			Foreword Introduction 1 Scope 2 Overview 3 Supply chain seaport risk areas 4 Seaport security plan evaluation criteria and rating process Bibliography
ISO 28004-3	SECURITY MANAGEMENT SYSTEMS FOR THE SUPPLY CHAIN - GUIDELINES FOR THE IMPLEMENTATION OF ISO 28000 - PART 3: ADDITIONAL SPECIFIC GUIDANCE FOR ADOPTING ISO 28000 FOR USE BY MEDIUM AND SMALL BUSINESSES (OTHER THAN MARINE PORTS)	1/2/2014	Specifies additional guidance to medium and small businesses (other than marine ports) that wish to adopt ISO 28000.	Business Continuity	Emergency Services			Foreword Introduction 1 Scope 2 Normative references 3 Additional guidance 4 Documentation 5 Guidance for small and medium-sized businesses obtaining advice and certification Bibliography
ISO 28004-4	SECURITY MANAGEMENT SYSTEMS FOR THE SUPPLY CHAIN - GUIDELINES FOR THE IMPLEMENTATION OF ISO 28000 - PART 4: ADDITIONAL SPECIFIC GUIDANCE ON IMPLEMENTING ISO 28000 IF COMPLIANCE WITH ISO 28001 IS A MANAGEMENT OBJECTIVE	1/2/2014	Gives additional guidance for organizations adopting ISO 28000 that also wish to incorporate the Best Practices identified in ISO 28001 as a management objective on their international supply chains.	Business Continuity	Emergency Services			Foreword Introduction 1 Scope 2 Normative references 3 General information 4 Organization of this part of ISO 28004 5 Synergy between the World Customs Organization SAFE Framework Authorized Economic Operator requirements 6 Practical guidance as to where the various requirements of ISO 28001 would plug into ISO 28000 as inputs, processes or outputs 7 Notes on terminology

ISO 28005-2	Security management systems for the supply chain - electronic port clearance (epc) - part 2: core data elements	1/3/2011	Provides technical specifications that facilitate efficient exchange of electronic information between ships and shore for coastal transit or port calls.	Business Continuity	Transportation Systems	Information Technology		<p>Foreword</p> <p>1 Scope</p> <p>2 Normative references</p> <p>3 Terms, definitions and abbreviated terms</p> <p>4 General provisions</p> <p>5 Adapted XSD data types</p> <p>6 General data types</p> <p>7 Core data types</p> <p>8 Electronic representation of this part of ISO 28005</p> <p>Annex A (informative) - Certificate codes</p> <p>Annex B (informative) - Classification society codes</p> <p>Annex C (informative) - Onboard and shore duty codes</p> <p>Annex D (informative) - Waste type codes</p> <p>Annex E (informative) - Message type codes</p> <p>Annex F (informative) - Service type codes</p> <p>Annex G (informative) - Examples of cargo and package codes</p> <p>Annex H (informative) - Common unit codes</p>
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ISO 30061	Emergency lighting	1/11/2007	Specifies the luminous requirements for emergency lighting systems installed in premises or locations where such systems are required.	Emergency Services	Communications			<p>FOREWORD 1 INTRODUCTION 2 SCOPE 3 NORMATIVE REFERENCES 4 TERMS AND DEFINITIONS 5 ESCAPE LIGHTING 6 ESCAPE ROUTE LIGHTING 7 OPEN AREA (ANTI-PANIC) LIGHTING 8 HIGH RISK TASK AREA LIGHTING 9 STANDBY LIGHTING 10 SAFETY SIGNS 10.1 Standards 10.2 Colour 10.3 Luminance 10.3.1 Requirements for emergency mode 10.3.2 Requirements for non-emergency mode 10.4 Uniformity 10.4.1 Uniformity of colours 10.4.2 Uniformity between colours 10.5 Height of the sign equating to viewing distance 11 INFLUENCE OF SMOKE ANNEX (INFORMATIVE): BIBLIOGRAPHY</p>
ISO 31000	RISK MANAGEMENT - PRINCIPLES AND GUIDELINES	15/11/2009	Gives principles and generic guidelines on risk management.	Business Continuity				<p>Foreword Introduction 1 Scope 2 Terms and definitions 3 Principles 4 Framework 5 Process Annex A (informative) - Attributes of enhanced risk management Bibliography</p>

ISO 3925	Unsealed radioactive substances -- Identification and certification	15/1/2014	Provides the requirements for the identification and documentation of unsealed radioactive substances issued commercially by suppliers and which are intended for further handling or processing, either physical or chemical.	Nuclear Reactors, Materials, and Waste				Foreword 1 Scope 2 Normative references 3 Terms and definitions 4 Identification 5 Certificate Bibliography
ISO 5657	REACTION TO FIRE TESTS - IGNITABILITY OF BUILDING PRODUCTS USING A RADIANT HEAT SOURCE	15/12/1997	Sets out a technique for the assessment of ignition properties of essentially flat materials, composites or assemblies up to and including 70mm in thickness, positioned horizontally and subjected to specific levels of thermal irradiance.	Commercial Facilities	Government Facilities	Residential Facilities	Emergency Services	1 Scope 2 Normative references 3 Definitions 4 Principles of the test 5 Suitability of a product for testing 6 Specimen construction and preparation 7 Test apparatus 8 Test environment 9 Setting-up of procedure and requirements 10 Calibration 11 Test procedure Annexes A Commentary on the text and guidance notes for operators B Application and limitations of test C Higher heat flux capabilities D Interlaboratory trial on variability in time to sustained surface ignition E Bibliography

ISO 5667-5	Water quality -- Sampling -- Part 5: Guidance on sampling of drinking water from treatment works and piped distribution systems	15/4/2006	Establishes principles to be applied to the techniques of sampling water intended for human consumption.	Water and Wastewater Systems	Transportation Systems			<p>Foreword</p> <p>Introduction</p> <p>1 Scope</p> <p>2 Terms and definitions</p> <p>3 Design of sampling programmes</p> <p>4 Sampling equipment</p> <p>5 Sample collection locations</p> <p>5.1 General</p> <p>5.2 Service reservoirs (including water towers)</p> <p>5.3 Water treatment plants</p> <p>5.4 Disinfection/oxidation plants</p> <p>5.5 Distribution system</p> <p>6 Pre-collection cleaning, disinfection and flushing</p> <p>6.1 General</p> <p>6.2 Service reservoirs (including water towers)</p> <p>6.3 Hydrants</p> <p>6.4 Faucets</p> <p>6.5 Dip sampling</p> <p>7 On-site analysis of samples</p> <p>8 Frequency and timing of sampling</p> <p>9 Sample collection and handling</p> <p>9.1 General</p> <p>9.2 Volume of samples</p> <p>9.3 Precautions to minimize</p>
ISO 6184-1	Explosion protection systems - Part 1: Determination of explosion indices of combustible dusts in air	15/11/1985	Of same nature as other tests set out in this standard. Explains how to relate results from this technique to those obtained by the others.	Emergency Services	Commercial Facilities	Government Facilities	Residential Facilities	
ISO 6184-2	Explosion protection systems - Part 2: Determination of explosion indices of combustible gases in air	15/11/1985	Gives test method. Gives the criteria by which results obtained using other test procedures can be correlated to yield the quantities as determined by the method specified.	Emergency Services	Commercial Facilities	Government Facilities		

ISO 6184-3	Explosion protection systems - Part 3: Determination of explosion indices of fuel/air mixtures other than dust/air and gas/air mixtures	15/11/1985	Provides a test method. Gives the criteria by which results obtained using other test procedures can be correlated to yield the quantities as determined by the method specified.	Emergency Services	Commercial Facilities	Government Facilities		
ISO 6184-4	Explosion protection systems - Part 4: Determination of efficacy of explosion suppression systems	15/11/1985	Provides a method for evaluating the effectiveness against defined explosions in an enclosed volume. Gives the criteria for alternative test apparatus used to undertake tests and criteria to be applied in defining the safe operating regime.	Emergency Services	Commercial Facilities	Government Facilities		
ISO 7001	Graphical symbols - Public information symbols	1/4/2014	Specifies graphical symbols for the purposes of public information.	communications				<p>Foreword</p> <p>Introduction</p> <p>1 Scope</p> <p>2 Normative references</p> <p>3 Terms and definitions</p> <p>4 General</p> <p>4.1 Size</p> <p>4.2 Text</p> <p>4.3 Arrows</p> <p>4.4 Colour and contrast</p> <p>4.5 Negation</p> <p>5 Meanings and categorization of public information symbols</p> <p>5.1 General</p> <p>5.2 Meaning</p> <p>5.3 Categorization</p> <p>6 Standardized public information symbols</p> <p>Bibliography</p>

ISO 7212	Enclosures for protection against ionizing radiation -- Lead shielding units for 50 mm and 100 mm thick walls	15/6/1986	Gives the properties of the various lead units that are used in the construction of shielded enclosures for protection against ionizing radiation. Deals with basic units: bricks, posts and functional units: aperture bricks, windows, sphere units, plugs and reducing units.	Nuclear Reactors, Materials, and Waste				<p>Contents</p> <ol style="list-style-type: none"> 1. Scope and field of application 2. Classification 3. Designation <ol style="list-style-type: none"> 3.1 Explanation of the reference number 3.2 Explanation of a designation example 4. Specifications of the bricks <ol style="list-style-type: none"> 4.1 General 4.2 Properties of the material 4.3 Profile of the chevron Section one: Lead shielding units - 50 mm thick <ol style="list-style-type: none"> 5. Categories 1 and 2 <ol style="list-style-type: none"> 5.1 Plain bricks 5.2 Corner bricks 5.3 End bricks 5.4 Special bricks 5.5 Posts 5.6 Assembly of basic units 5.7 Aperture bricks 5.8 Windows 5.9 Sphere units 5.10 Plugs 5.11 Reducing units 5.12 Assembly of functional units
ISO 7240-1	Fire detection and alarm systems -- Part 1: General and definitions	1/6/2014	Gives a set of general guidelines and definitions to be used in describing the fire detection and alarm system equipment, tests and requirements in the other parts of ISO 7240.	Emergency Services	Commercial Facilities	Government Facilities	Residential Facilities	<p>Foreword</p> <p>Introduction</p> <ol style="list-style-type: none"> 1 Scope 2 General guidelines 3 Terms and definition 4 Components of fire detection and alarm systems 5 Test determination <p>Bibliography</p>

ISO 7240-24	Fire detection and fire alarm systems - Part 24: Sound-system loudspeakers	15/2/2013	Describes requirements, test methods and performance criteria for loudspeakers intended to broadcast a warning of fire between a fire detection and alarm system and the occupants of a building.	communications	Commercial Facilities	Government Facilities	Residential Facilities	Foreword Introduction 1 Scope 2 Normative references 3 Terms, abbreviated terms and definitions 4 Requirements 5 Tests 6 Test report Annex A (normative) - Acoustical measurements Annex B (normative) - Measuring rated noise power (durability) Annex C (informative) - Loudspeaker physical references Bibliography
ISO 7396-1	MEDICAL GAS PIPELINE SYSTEMS - PART 1: PIPELINE SYSTEMS FOR COMPRESSED MEDICAL GASES AND VACUUM	1/3/2013	Describes requirements for design, installation, function, performance, documentation, testing and commissioning of pipeline systems for compressed medical gases, gases for driving surgical tools and vacuum in healthcare facilities to ensure continuous delivery of the correct gas and the provision of vacuum from the pipeline system.	Energy	Healthcare and Public Health	Transportation Systems		Foreword Introduction 1 Scope 2 Normative references 3 Terms and definitions 4 General requirements 4.1 Safety 4.2 Alternative construction 4.3 Materials 4.4 System design 5 Supply systems 5.1 System components 5.2 General requirements 5.3 Supply systems with cylinders or cylinder bundles 5.4 Supply systems with mobile or stationary cryogenic or non-cryogenic vessels 5.5 Supply systems for air 5.6 Supply systems with oxygen concentrator(s) 5.7 Supply systems for vacuum 5.8 Location of supply systems 5.9 Location of cylinder manifolds 5.10 Location of stationary cryogenic vessels 6 Monitoring and alarm systems 6.1 General 6.2 Installation requirements 6.3 Monitoring and alarm signals 6.4 Provision of operating alarms 6.5 Provision of emergency clinical alarms 6.6 Provision of emergency operating alarms 7 Pipeline distribution

ISO 7396-2	MEDICAL GAS PIPELINE SYSTEMS - PART 2: ANAESTHETIC GAS SCAVENGING DISPOSAL SYSTEMS	1/4/2007	Describes requirements for the design, installation, function, performance, documentation, testing and commissioning of anaesthetic gas scavenging disposal systems to ensure patient safety and to minimize exposure of the operator and other persons to anaesthetic gases and vapours.	Energy	Healthcare and Public Health	Transportation Systems		Foreword Introduction 1 Scope 2 Normative references 3 Terms and definitions 4 General requirements 4.1 Safety 4.2 Alternative construction 4.3 Materials 4.4 Continuity of operation 5 Power device 6 Indicating systems 7 Pipelines, connecting assemblies and disposal hoses 8 Disposal system characteristics and test methods for pressure and flow 8.1 Requirements 8.2 Test methods for pressure and flow 8.3 Means to prevent backflow 9 Terminal units 10 Marking and colour coding 10.1 Marking 10.2 Colour coding 10.3 Test for durability 11 Pipeline installation 12 Testing, commissioning and certification 12.1 General 12.2 General requirements for tests 12.3 Tests, inspections and checks 12.4 Requirements for tests, inspections and checks listed in 12.3 12.5 Certification of the system 12.6 Extensions or modifications 13 Information to be
ISO 8201	Acoustics -- Audible emergency evacuation signal	15/12/1987	Gives two parameters, the temporal pattern and the required sound pressure level at all places within the intended reception area. Applies to the audible signal and not to the individual signalling system components.	Emergency Services	Communications			
ISO 8421-4:1990	Fire protection -- Vocabulary - Part 4: Fire extinction equipment	1990		Emergency Services				
ISO 8421-7:1987	Fire protection -- Vocabulary - Part 7: Explosion detection and suppression means	1987		Emergency Services				

ISO 9186-1	Graphical symbols - Test methods - Part 1: Methods for testing comprehensibility	15/3/2014	Defines a method for testing the comprehensibility of graphical symbols.	communications				Foreword Introduction 1 Scope 2 Normative references 3 Terms and definitions 4 Principle 5 Preliminary steps 6 Comprehension test Annex A (normative) - Comprehension test Bibliography
ISO IWA 9	FRAMEWORK FOR MANAGING SUSTAINABLE DEVELOPMENT IN BUSINESS DISTRICTS	29/08/2011	Gives a framework for managing sustainable development in a business district, including the evaluation, comparison and improvement of its performance.	Business Continuity				

ISO TR 15916	BASIC CONSIDERATIONS FOR THE SAFETY OF HYDROGEN SYSTEMS	15/02/2004	Gives guidelines for the use of hydrogen in its gaseous and liquid forms. It identifies the basic safety concerns and risks, and describes the properties of hydrogen that are relevant to safety.	Emergency Services	Chemical			Foreword Introduction 1 Scope 2 Normative references 3 Terms and definitions 4 Overview of hydrogen applications 4.1 Basic hydrogen infrastructure 4.2 Typical hydrogen system components 4.3 Hydrogen fuel 4.4 Environmental effects 5 Safety considerations for the use of gaseous and liquid hydrogen 5.1 General 5.2 Hazards involved as a consequence of the properties of hydrogen 5.3 Factors involved in combustion hazards 5.4 Factors involved in pressure hazards 5.5 Factors involved in temperature hazards 5.6 Factors involved in hydrogen embrittlement hazards 5.7 Health hazards 5.8 Team approach and training needed for the safe use of hydrogen 6 Basic properties of hydrogen 6.1 General properties 6.2 Selected thermophysical properties 6.3 Basic combustion properties 7 Mitigation and control of risks 7.1 General mitigation and control of risk 7.2 Mitigation of design risks
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ISO TR 21730	HEALTH INFORMATICS - USE OF MOBILE WIRELESS COMMUNICATION AND COMPUTING TECHNOLOGY IN HEALTHCARE FACILITIES - RECOMMENDATIONS FOR ELECTROMAGNETIC COMPATIBILITY (MANAGEMENT OF UNINTENTIONAL ELECTROMAGNETIC INTERFERENCE) WITH MEDICAL DEVICES	15/02/2007	Provides guidance for the deployment, use and management of mobile wireless communication and computing equipment in healthcare facilities in a way that promotes effective electromagnetic compatibility (EMC) among the wireless technology and active medical devices through mitigation of potential hazards due to electromagnetic interference (EMI).	Healthcare and Public Health	Information Technology			Foreword Introduction 1 Scope 2 Terms, definitions and abbreviated terms 2.1 Terms and definitions 2.2 Abbreviated terms 3 Current status of management of electromagnetic interference 3.1 Mobile wireless equipment in healthcare facilities 3.2 The risk of patient harm due to EMI 3.3 Existing relevant standards and recommendations 3.4 EMC with medical devices and minimization of EMI risk 4 Recommendations 4.1 General recommendations 4.2 Responsibility within healthcare facilities 4.3 Inventory within healthcare facilities 4.4 Testing within healthcare facilities 4.5 Controlled use within healthcare facilities 4.6 Non-controlled use within healthcare facilities 4.7 RF emissions from network sources 4.8 Medical devices within healthcare facilities Annex A (informative) RF technologies Bibliography
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ISO/DIS 15589-1	PETROLEUM, PETROCHEMICAL AND NATURAL GAS INDUSTRIES - CATHODIC PROTECTION OF PIPELINE SYSTEMS - PART 1: ON-LAND PIPELINES	15/11/2003	Provides requirements and gives recommendations for the pre-installation surveys, design, materials, equipment, fabrication, installation, commissioning, operation, inspection and maintenance of cathodic protection systems for on-land pipelines, as defined in ISO 13623, for the petroleum and natural gas industries. Applicable to buried carbon steel, stainless steel pipelines on land, retrofits, modifications and repairs made to existing pipeline systems.	Energy	Transportation Systems			Foreword Introduction 1 Scope 2 Normative references 3 Terms and definitions 4 Symbols and abbreviations 5 Design requirements 5.1 General 5.2 Design information 5.3 Criteria for CP 5.4 Predesign investigations 5.5 Electrical isolation 5.6 Electrical earthing 5.7 Electrical continuity 5.8 Current requirements 5.9 Type of CP system and selection of sites 6 Impressed-current systems 6.1 Power supply 6.2 Groundbeds 6.3 Current output control and distribution 7 Galvanic-anode systems 7.1 General 7.2 Zinc anodes 7.3 Magnesium anodes 7.4 Anode backfill
ISO/DIS 22320	ISO/DIS 22320 - SOCIETAL SECURITY - EMERGENCY MANAGEMENT - REQUIREMENTS FOR COMMAND AND CONTROL	22/08/2011	Defines requirements for command and control, information, coordination and cooperation which provide the basics for effective command and control within an incident response organization.	Emergency Services				Foreword Introduction 1 Scope 2 Normative references 3 Terms and definitions 4 Requirements for command and control 5 Requirements for operational information process 6 Requirements for cooperation and coordination Bibliography
ISO/DIS 22322	BS ISO 22322 - SOCIETAL SECURITY - EMERGENCY MANAGEMENT - PUBLIC WARNING	11/4/2013		Emergency Services	Communications	Societal		Foreword Introduction 1 Scope 2 Normative references 3 Terms and definitions 4 Public warning system 5 Public warning process 6 People at risk 7 Public warning resources 8 Cooperation and coordination Annex A (informative) Bibliography

ISO/DIS 22324	SOCIETAL SECURITY - EMERGENCY MANAGEMENT - COLOUR-CODED ALERT	30/09/2013	Specifies colour codes expressing the severity of a situation so that people at risk can take appropriate safety actions.	Emergency Services	Communications	Societal		Foreword Introduction 1 Scope 2 Normative references 3 Terms and definitions 4 Guidance for use of colour codes 5 Colours and colour codes Annex A (informative) - Applications Annex B (informative) - Recommendations for safety colour selection Bibliography
ISO/DIS 37120	SUSTAINABLE DEVELOPMENT AND RESILIENCE OF COMMUNITIES - INDICATORS FOR CITY SERVICES AND QUALITY OF LIFE	7/5/2014	Describes and establishes methodologies for a set of indicators to steer and measure the performance of city services and quality of life.	Business Continuity	Emergency Services			Foreword . Introduction 1 Scope 2 Normative references 3 Terms and definitions 4 City Indicators 5 Economy 6 Education 7 Energy 8 Environment 9 Finance 10 Fire and emergency response 11 Governance 12 Health 13 Recreation 14 Safety 15 Shelter 16 Solid waste 17 Telecommunication and innovation 18 Transportation 19 Urban planning 20 Wastewater 21 Water and Sanit 22 Reporting and record maintenance Annex A (informative) - City indicators Annex B (informative) - Profile Indicators Bibliography

ISO/IEC 21000-15	- Amendment 1: Security in Event Reporting	1/10/2008	Specifies a mechanism to express Event Report Requests (ER-R) that contain information about which Events to report, what information is to be reported and to whom.	Information Technology				Foreword Introduction 1 Scope 1.1 General 1.2 Organisation of the Document 2 Normative References 3 Terms and Definitions 4 Symbols and Abbreviated Terms 5 Namespace and Conventions 5.1 Namespace 5.2 Schema Wrapper 5.3 Use of namespace prefixes 6 Reference Architecture 6.1 Background to Event Reporting 6.2 Creating and Processing Event Reports 6.3 Relationship of Event Reporting with other Parts of ISO/IEC 21000 7 Event Report Requests 7.1 Introduction 7.2 High-level Structure 7.3 Event Report Request Descriptor 7.4 Event Report Specification 7.5 Event Condition Descriptor 8 Event Reports 8.1 Introduction
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ISO/IEC 27005	Information technology - Security techniques - Information security risk management	1/6/2011	Gives guidelines for information security risk management.	Information Technology				Foreword Introduction 1 Scope 2 Normative references 3 Terms and definitions 4 Structure of this International Standard 5 Background 6 Overview of the information security risk management process 7 Context establishment 8 Information security risk assessment 9 Information security risk treatment 10 Information security risk acceptance 11 Information security risk communication and consultation 12 Information security risk monitoring and review Annex A (informative) - Defining the scope and boundaries of the information security risk management process
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ISO/IEC 27031	Information technology - Security techniques - Guidelines for information and communication technology readiness for business continuity	1/3/2011	Defines the concepts and principles of information and communication technology (ICT) readiness for business continuity, and provides a framework of methods and processes to identify and specify all aspects (such as performance criteria, design, and implementation) for improving an organization's ICT readiness to ensure business continuity.	Information Technology				Foreword Introduction 1 Scope 2 Normative references 3 Terms and definitions 4 Abbreviations 5 Overview 6 IRBC Planning 7 Implementation and Operation 8 Monitor and Review 9 IRBC improvement Annex A (informative) - IRBC and milestones during a disruption Annex B (informative) - High availability embedded system Annex C (informative) - Assessing Failure Scenarios Annex D (informative) - Developing Performance Criteria Bibliography
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ISO/IEC 27032	Information technology - Security techniques - Guidelines for cybersecurity	15/7/2012	Specifies guidance for improving the state of Cybersecurity, drawing out the unique aspects of that activity and its dependencies on other security domains, in particular: - information security, - network security, - internet security, and - critical information infrastructure protection (CIIP).	Information Technology				Foreword Introduction 1 Scope 2 Applicability 3 Normative references 4 Terms and definitions 5 Abbreviated terms 6 Overview 7 Stakeholders in the Cyberspace 8 Assets in the Cyberspace 9 Threats against the security of the Cyberspace 10 Roles of stakeholders in Cybersecurity 11 Guidelines for stakeholders 12 Cybersecurity controls 13 Framework of information sharing and coordination Annex A (informative) - Cybersecurity readiness Annex B (informative) - Additional resources Annex C (informative) - Examples of related documents Bibliography
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ISO/IEC 27035 / ISO/IEC 27031	Information technology - Security techniques: ISO/IEC 27035 / ISO/IEC 27031	1/9/2011	Gives a structured and planned approach to: 1. detect, report and assess information security incidents; 2. respond to and manage information security incidents; 3. detect, assess and manage information security vulnerabilities; and 4. continuously improve information security and incident management as a result of managing information security incidents and vulnerabilities.	Information Technology				<p>Foreword</p> <p>Introduction</p> <p>1 Scope</p> <p>2 Normative references</p> <p>3 Terms and definitions</p> <p>4 Overview</p> <p>5 Plan and prepare phase</p> <p>6 Detection and reporting phase</p> <p>7 Assessment and decision phase</p> <p>8 Responses phase</p> <p>9 Lessons learnt phase</p> <p>Annex A (informative) - Cross reference table of ISO/IEC 27001 vs ISO/IEC 27035</p> <p>Annex B (informative) - Examples of information security incidents and their causes</p> <p>Annex C (informative) - Example approaches to the categorization and classification of information security events and incidents</p> <p>Annex D (informative) - Example information security event, incident and vulnerability reports and forms</p> <p>Annex E (informative) - Legal and</p>
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ISO/IEC 29180	INFORMATION TECHNOLOGY TELECOMMUNICATIONS AND INFORMATION EXCHANGE BETWEEN SYSTEMS - SECURITY FRAMEWORK FOR UBIQUITOUS SENSOR NETWORKS	1/12/2012	Specifies the security threats to and security requirements of the ubiquitous sensor network.	Information Technology	Communications			1 Scope 2 Normative references 3 Definitions 4 Abbreviations 5 Conventions 6 Overview 7 Threats and security models for ubiquitous sensor networks 8 General security dimensions for USN 9 Security dimensions and threats in ubiquitous sensor networks 10 Security techniques for ubiquitous sensor networks 11 Specific security functional requirements for USN Annex A - Key management in sensor networks Annex B - Authenticated broadcast in sensor networks: [mu]TPC Annex C - Authentication mechanisms in sensor networks Annex D - Secure data aggregation in sensor networks Bibliography
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ISO/IEC Guide 74	Graphical symbols -- Technical guidelines for the consideration of consumers needs	6/12/2004	Provides procedures for the development of graphical symbols for public information, use in safety signs and product safety labels, and use on equipment and products.	communications				Foreword Introduction 1 Scope 2 Normative references 3 Terms and definitions 4 Relevant international technical committees 5 Preliminary considerations 6 Designing a new graphical symbol 7 Relevant International Standards 8 Evaluating the comprehensibility of safety signs (including product safety labels) and public information symbols 9 Validation, standardization and registration of graphical symbols Annex A (informative) - Examples of standardized and registered graphical symbols and safety signs Bibliography
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ISO/IEC TR 14516:2002	Information technology -- Security techniques -- Guidelines for the use and management of Trusted Third Party services	15/6/2002	Gives guidance for the use and management of TTPs, a clear definition of the basic duties and services provided, their description and their purpose, and the roles and liabilities of TTPs and entities using their services. It is intended primarily for system managers, developers, TTP operators and enterprise users to select those TTP services needed for particular requirements, their subsequent management, use and operational deployment, and the establishment of a Security Policy within a TTP.	Information Technology				<ul style="list-style-type: none"> 1 Scope 2 References 2.1 Identical Recommendations International Standards 2.2 Paired Recommendations International Standards equivalent in technical content 2.3 Additional References 3 Definitions 4 General Aspects 4.1 Basis of Security Assurance and Trust 4.2 Interaction between a TTP and Entities Using its Services <ul style="list-style-type: none"> 4.2.1 In-line TTP Services 4.2.2 On-line TTP Services 4.2.3 Off-line TTP Services 4.3 Interworking of TTP Services 5 Management and Operational Aspects of a TTP <ul style="list-style-type: none"> 5.1 Legal Issues 5.2 Contractual Obligations 5.3 Responsibilities 5.4 Security Policy <ul style="list-style-type: none"> 5.4.1 Security Policy Elements 5.4.2 Standards
ISO/IEC TR 15443-1	Information technology - Security techniques - Security assurance framework - Part 1: Introduction and concepts	15/11/2012	Describes terms and establishes an extensive and organised set of concepts and their relationships for understanding IT security assurance, thereby establishing a basis for shared understanding of the concepts and principles central to ISO/IEC TR 15443 across its user communities.	Information Technology				<ul style="list-style-type: none"> Foreword Introduction 1 Scope 2 Normative references 3 Terms and definitions 4 Abbreviated Terms 5 Concepts of security assurance 6 The structure of security assurance 7 SACA techniques 8 SACA methods 9 CASCO 10 SACA Paradigms 11 Aspects of the composition of security assurance Bibliography

ISO/IEC TR 20004	Information technology -- Security techniques -- Refining software vulnerability analysis under ISO/IEC 15408 and ISO/IEC 18045	15/8/2012	Describes the AVA_VAN assurance family activities defined in ISO/IEC 18045:2008 and provides more specific guidance on the identification, selection and assessment of relevant potential vulnerabilities in order to conduct an ISO/IEC 15408 evaluation of a software target of evaluation.	Information Technology				Foreword Introduction 1 Scope 2 Terms and definitions 3 Abbreviated terms 4 Background Context 5 Overview 6 Vulnerability Assessment Activities Bibliography
ISO/IEC TR 27015	INFORMATION TECHNOLOGY SECURITY TECHNIQUES - INFORMATION SECURITY MANAGEMENT GUIDELINES FOR FINANCIAL SERVICES	1/12/2012	Gives information security guidance complementing and in addition to information security controls defined in ISO/IEC 27002:2005 for initiating, implementing, maintaining, and improving information security within organizations providing financial services.	Information Technology	Financial Services			Foreword Introduction 1 Scope 2 Normative references 3 Terms, definitions and abbreviated terms 4 Structure of this technical report 5 Security Policy 6 Organization of information security 7 Asset management 8 Human resources security 9 Physical and environmental security 10 Communications and operations management 11 Access control 12 Information systems acquisition, development and maintenance 13 Information security incident management 14 Business continuity management 15 Compliance Bibliography

ISO/PAS 22399	Societal security - Guideline for incident preparedness and operational continuity management	1/12/2007	Provides general guidance for an organization - private, governmental, and nongovernmental organizations - to develop its own specific performance criteria for incident preparedness and operational continuity, and design an appropriate management system.	Societal	business continuity	Emergency Services		Foreword Introduction 1 Scope 2 Normative references 3 Terms and definitions 4 General 5 Policy 5.1 Establishing the program 5.2 Defining program scope 5.3 Management leadership and commitment 5.4 Policy development 5.5 Policy review 5.6 Organizational structure for implementation 6 Planning 6.1 General 6.2 Legal and other requirements 6.3 Risk assessment and impact analysis 6.4 Hazard, risk, and threat identification 6.5 Risk assessment 6.6 Impact analysis 6.7 Incident preparedness and operational continuity management programs
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ISO/TR 13387-1:1999	Fire safety engineering -- Part 1: Application of fire performance concepts to design objectives	30/9/1999	Covers one framework to provide an engineered approach to the achievement of fire safety in buildings, based on the quantifying of fire and people.	Commercial Facilities	Government Facilities	Residential Facilities	Emergency Services	<ul style="list-style-type: none"> 1 Scope 2 Normative references 3 Terms and definitions 4 The global approach <ul style="list-style-type: none"> 4.1 General 4.2 Summary of the fire safety engineering assessment process 4.3 The subsystems of the design 4.4 Design parameters 4.5 The global information, evaluation and process concept 4.6 Engineering methods 5 Fire safety management <ul style="list-style-type: none"> 5.1 General 5.2 Independent audit 6 Objectives and criteria <ul style="list-style-type: none"> 6.1 General 6.2 Functional objectives 6.3 Acceptance criteria 7 Deterministic design <ul style="list-style-type: none"> 7.1 Background 8 Probability design <ul style="list-style-type: none"> 8.1 Background 8.2 Basic probabilistic techniques 8.3 Data required
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ISO/TR 13387-2:1999	Fire safety engineering -- Part 2: Design fire scenarios and design fires	30/9/1999	Gives advice on identifying suitable design fire scenarios to be considered in fire safety design. Also advises on the specification of design fires for quantitative analysis in fire safety design of buildings, and can be applied to other constructions.	Commercial Facilities	Government Facilities	Residential Facilities	Emergency Services	1 Scope 2 Normative references 3 Terms and definitions 4 Symbols and abbreviated terms 5 Design fire scenarios 5.1 Role of design fire scenarios in fire safety design 5.2 Identification of important design fire scenarios 6 Design fires 6.1 Role of design fires in the fire safety engineering 6.2 Characteristics of design fires 6.3 Characteristic fire growth 6.4 Events modifying the design fire 6.5 Pre-flashover design fires 6.6 Fully developed fires 6.7 External design fires Annex A (informative) Typical fire growth categories Bibliography
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ISO/TR 13387-3:1999	Fire safety engineering -- Part 3: Assessment and verification of mathematical fire models	30/9/1999	Gives advice on methods for assessment and verification of the applicability and accuracy of mathematical fire models used as fire safety engineering tools. Specific fire models are not covered, and it is not a step-by-step method, however, it does outline techniques for finding limitations and errors in a calculation model.	Commercial Facilities	Government Facilities	Residential Facilities	Emergency Services	<ul style="list-style-type: none"> 1 Scope 2 Normative references 3 Terms and definitions 4 Symbols and abbreviated terms 5 Potential users and their needs 6 Documentation <ul style="list-style-type: none"> 6.1 General 6.2 Technical documents 6.3 User's manual 7 General methodology <ul style="list-style-type: none"> 7.1 General 7.2 Review of the theoretical basis of the model 7.3 Analytical tests 7.4 Comparison with other programmes 7.5 Empirical verification 7.6 Code checking 8 Numerical accuracy 9 Measurement uncertainty of data <ul style="list-style-type: none"> 9.1 General 9.2 Category A determination of standard uncertainty 9.3 Category B determination of standard uncertainty 9.4 Combined standard uncertainty 9.5 Expanded uncertainty
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ISO/TR 13387-7:1999	Fire safety engineering -- Part 7: Detection, activation and suppression	30/9/1999	Supplies guidance to regulators, designers and fire safety professionals on the fundamental engineering procedures that should be included in design guides and reference manuals for the prediction of times to detect fire events, based on the design-fire environment and properties and/or location of automatic detection devices; times to activate automatic alarm systems and automatic systems designed to control fire growth of to control the effects of fire based on system design parameters; the effectiveness of activated automatic suppression systems in limiting the potential consequences on a fire, based on key system characteristics.	Commercial Facilities	Government Facilities	Residential Facilities	Emergency Services	<ul style="list-style-type: none"> 1 Scope 2 Normative references 3 Terms and definitions 4 Symbols and abbreviated terms <ul style="list-style-type: none"> 4.1 Symbols 4.2 Abbreviated terms 5 Subsystem 4 of the total design system <ul style="list-style-type: none"> 5.1 General discussion 5.1 Explanation and illustrations 5.2 Information flow 6 Subsystem evaluations <ul style="list-style-type: none"> 6.1 Detection time 6.2 Activation time 6.3 Performance of suppression systems 7 Engineering methods <ul style="list-style-type: none"> 7.1 General applications to subsystem 4 7.2 Estimation formulae 7.3 Computer models 7.4 Experimental methods 7.5 Reliability analysis Annex A (informative) Physical mechanisms of suppression by water sprays Annex B (informative) Calculation of
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ISO/TR 13387-8:1999	Fire safety engineering -- Part 8: Life safety -- Occupant behaviour, location and condition	30/9/1999	Supplies guidance to designers, regulators and fire safety professionals on the engineering procedures available to evaluate the condition and location of the occupants of a building exposed to a fire. Covers the assumptions that underline the basic principles of designing for life safety and provides guidance on the assessments, processes and calculations necessary to determine the condition and location of the occupants of the building.	Commercial Facilities	Government Facilities	Residential Facilities	Emergency Services	<ul style="list-style-type: none"> 1 Scope 2 Normative references 3 Terms and definitions 4 Design Subsystem 5 of the total fire safety design system <ul style="list-style-type: none"> 4.1 General 4.2 Information system 4.3 Function of Subsystem 5 5 Subsystem 5 (SS5) life safety: evaluations <ul style="list-style-type: none"> 5.1 General 5.2 Inputs required from the global information bus 5.3 Occupant location 5.4 Occupant condition 6 Engineering methods <ul style="list-style-type: none"> 6.1 General 6.2 Engineering methods for evaluating occupant location 6.3 Engineering methods for evaluation of occupant condition Annex A (informative) Building and occupant information
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ISO/TR 13843	Water quality -- Guidance on validation of microbiological methods	1/6/2000	Deals with validation of microbiological methods, in particular selective quantitative methods where the quantitative estimate is based on counting particles, either directly, with the aid of a microscope, or indirectly on the basis of growth (multiplication) into colonies or turbidity.	Water and Wastewater Systems				Foreword 1 Scope 2 Terms and definitions 3 Arrangement of the document 4 Basic concepts 4.1 General 4.2 Validation 4.3 Detectors 4.4 Performance characteristics 4.5 Specifications 5 Limitations and characteristic features of microbiological methods 5.1 Recovery of the analyte 5.2 Sample variance 5.3 Particle distribution and over dispersion 5.4 Interactions in the detector 5.5 Robustness 5.6 Spurious errors 5.7 Control and guidance charts 6 Mathematical models of variation 6.1 Unavoidable basic variation - The Poisson distribution 6.2 Over dispersion - The negative binomial model
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ISO/TR 15656	Fire resistance -- Guidelines for evaluating the predictive capability of calculation models for structural fire behaviour	1/12/2003	Gives guidance for evaluating the predictive capability of calculation models for structural fire behaviour. Applies to calculation procedures not based on physical models.	Commercial Facilities	Government Facilities	Residential Facilities	Emergency Services	<p>Foreword</p> <p>Introduction</p> <p>1 Scope</p> <p>2 Normative references</p> <p>3 Terms and definitions</p> <p>4 Background information</p> <p>4.1 General</p> <p>4.2 Potential users and their needs</p> <p>4.3 Predictive model capabilities, uncertainties of design component (from ISO/TR 12471)</p> <p>5 Outline of met</p> <p>6 Definition and documentation of model and scenario</p> <p>6.1 Types of models</p> <p>6.2 Documentation</p> <p>6.3 Deterministic versus probabilistic</p> <p>7 Evaluation</p> <p>7.1 Sources of errors in predictions</p> <p>7.2 Model application and use</p> <p>7.3 Model theoretical basis</p> <p>7.4 Model solution</p> <p>7.5 Comparison of model results</p> <p>7.6 Measurement uncertainty of data (from ISO/TR 13387-3)</p>
ISO/TR 16732-2	Fire Safety Engineering - Fire risk assessment - Part 2: Example of an office building	15/9/2012	Describes the implementation of the steps of fire risk assessment, as defined in ISO 16732-1.	Commercial Facilities	Government Facilities	Residential Facilities	Emergency Services	<p>Foreword</p> <p>Introduction</p> <p>1 Scope</p> <p>2 Normative references</p> <p>3 Terms and definitions</p> <p>4 Applicability of fire risk assessment</p> <p>5 Overview of fire risk management</p> <p>6 Steps in fire risk estimation</p> <p>7 Uncertainty, sensitivity, precision, and bias</p> <p>8 Fire risk evaluation</p> <p>Bibliography</p>

ISO/TR 16732-3	Fire safety engineering - Fire risk assessment - Part 3: Example of an industrial property	15/2/2013	Describes a fictitious propane storage facility dedicated to the reception of propane transported by tank wagons, the storage of propane in a pressurized vessel and the bulk shipment of propane by tank trucks.	Commercial Facilities	Government Facilities	Residential Facilities	Emergency Services	Foreword Introduction 1 Scope 2 Normative references 3 Terms and definitions 4 Applicability of fire risk assessment 5 Overview of fire risk management 6 Steps in fire risk estimation 7 Uncertainty, sensitivity, precision, and bias 8 Fire risk evaluation Bibliography
ISO/TR 16738	Fire-safety engineering - Technical information on methods for evaluating behaviour and movement of people	1/8/2009	Gives information to designers, regulators and fire safety professionals on the engineering methods available for evacuation strategies in relation to the evaluation of life safety aspects of a fire safety engineering design.	Commercial Facilities	Government Facilities	Residential Facilities	Emergency Services	Foreword Introduction 1 Scope 2 Normative references 3 Terms and definitions 4 Symbols 5 Integration of behaviour and movement into Performance-based design 5.1 General 5.2 Basis of performance-based design for life safety 5.3 ASET calculations 5.4 RSET calculations 5.5 Evacuation strategies 5.6 Margin of safety 5.7 Elements used in the quantification of RSET 6 Design behavioural scenarios for quantification of RSET 7 Estimation of pre-travel activity times 8 Estimation of travel times 9 Interactions between pre-travel activity time, walking time and exit flow time 10 Calculation of escape and

ISO/TR 22312	Societal security -- Technological capabilities	15/7/2011	Provides the knowledge accumulated in the six month study period conducted by ISO/TC 223/Ad hoc group 1 (AHG1), in which AHG1 examined the different existing available technologies which would be relevant to standardize within the field of societal security.	Societal	Information Technology			Foreword Introduction 1 Scope 2 Existing international security standardization work 3 Work being done in other technical committees within ISO, IEC and ITU-T 4 AHG1 study methodology 5 Raw results 6 Results Annex A (informative) - List of ISO Technical Committees involved in security Bibliography
ISO/TS 12869	Water quality -- Detection and quantification of Legionella and/or Legionella pneumophila by concentration and genic amplification by polymerase chain reaction (RT-PCR)	1/11/2012	Describes a method for the detection and quantification of Legionella spp. and L. pneumophila using a quantitative polymerase chain reaction (qPCR).	Water and Wastewater Systems				Foreword Introduction 1 Scope 2 Normative references 3 Terms and definitions 4 Principle 5 Sampling 6 General testing conditions 7 Procedure 8 Expression of the results 9 Test report 10 Technical protocol for the characterization and the validation of the method 11 Quality controls Annex A (informative) - Example of protocol for producing a quantitative standard DNA solution Annex B (informative) - Example of method for determining the cycle threshold Annex C (informative) - Example of a study of the quantitative PCR phase calibration function Annex D (informative) - Specific Student distribution

ISO/TS 13475-2	Acoustics -- Stationary audible warning devices used outdoors -- Part 2: Precision methods for determination of sound emission quantities	2/11/2000	Test conditions under which the acoustic emission levels of stationary audible warning devices may be obtained are specified. Applicable to sirens for use in outdoor public warning systems and sound signalling devices for use outdoors. The purpose of this test code is to be able to produce reliable sound emission level measurements for stationary sirens to be used outdoors. Does not cover spoken messages and contains no recommendation for specific warning signals.	communications	Emergency Services			<p>Foreword</p> <p>Objectives</p> <p>Background to the Eurocode Programme</p> <p>Eurocode Program</p> <p>National Applications Documents</p> <p>Matters specific to this prestandard</p> <p>Safety requirements</p> <p>Design procedures</p> <p>Design aids</p> <p>1 General</p> <p>1.1 Scope</p> <p>1.2 Distinction between Principles and</p> <p>Application Rules</p> <p>1.3 Normative references</p> <p>1.4 Definitions</p> <p>1.5 Symbols</p> <p>1.6 Units</p> <p>2 Basic principles and rules</p> <p>2.1 Performance requirements</p> <p>2.2 Actions</p> <p>2.3 Design values of material properties</p> <p>2.4 Assessment methods</p> <p>2.4.5 Design assisted by testing</p> <p>3 Material properties</p>
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ISO/TS 15624	Transport information and control systems -- Traffic Impediment Warning Systems (TIWS) -- System requirements	18/1/2001	Gives requirements for Traffic Impediment Warning Systems (TIWS). The purposes of the warning system are that information collected by the infrastructure is automatically and quickly provided to vehicles and reported to the traffic system operator, so vehicles can avoid secondary accidents.	Transportation Systems	Communications			<p>Foreword</p> <p>Introduction</p> <p>1 Scope</p> <p>2 Terms and definitions</p> <p>3 Specifications and requirements</p> <p>3.1 General specifications</p> <p>3.2 Classifications</p> <p>3.3 Objects constituting traffic impediments and detection coverage</p> <p>3.4 Types of sensors</p> <p>3.5 Provision of information</p> <p>3.6 Range of information provision to drivers</p> <p>3.7 CCTV camera installation interval</p> <p>4 System testing method</p> <p>4.1 System performance test</p> <p>4.2 System function test</p> <p>Annex A (informative) Incidents of traffic impediment events</p> <p>Annex B (informative) Issues to be addressed and not addressed</p> <p>Annex C (informative) Place for introducing a system</p> <p>Annex D (informative) Specific</p>
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ISO/TS 16489	Water quality -- Guidance for establishing the equivalency of results	24/10/2006	Specifies statistical procedures to test the equivalency of results obtained by two different analytical methods used in the analysis of waters.	Water and Wastewater Systems				<p>Foreword</p> <p>Introduction</p> <p>1 Scope</p> <p>2 Normative references</p> <p>3 Terms and definitions</p> <p>4 Overview of the different approaches</p> <p>5 Amount of data</p> <p>6 Data comparisons</p> <p>7 Comparison of arithmetic means of two independently obtained sets of data</p> <p>8 Comparison of population and sample arithmetic means</p> <p>9 Analysis of variance</p> <p>10 Determination of the equivalence of analytical results obtained from samples from different matrices</p> <p>10.1 General</p> <p>10.2 Determination of the equivalence of the analytical results of real samples using orthogonal regression</p> <p>10.3 Evaluation according to the difference method</p> <p>11 Reporting</p>
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ISO/TS 20281	Water quality -- Guidance on statistical interpretation of ecotoxicity data	1/4/2006	Provides guidance on statistical methods used for the analysis of data of standardized ecotoxicity tests.	Water and Wastewater Systems				<p>Foreword</p> <p>Introduction</p> <p>1 Scope</p> <p>2 Normative references</p> <p>3 Terms and definitions</p> <p>4 General statistical principles</p> <p>4.1 Different statistical approaches</p> <p>4.2 Experimental design issues</p> <p>4.3 Process of data analysis</p> <p>5 Hypothesis testing</p> <p>5.1 Introduction</p> <p>5.2 Quantal data (e.g. mortality, survival)</p> <p>5.3 Hypothesis testing with continuous data (e.g. mass, length, growth rate) to determine NOEC</p> <p>5.4 Statistical items to be included in the study report</p> <p>6 Dose-response modelling</p> <p>6.1 Introduction</p> <p>6.2 Modelling quantal dose-response data (for a single exposure duration)</p> <p>6.3 Dose-response modelling of continuous data (for a single exposure duration)</p>
ISO/TS 22475-2	Geotechnical investigation and testing - Sampling methods and groundwater measurements - Part 2: Qualification criteria for enterprises and personnel	15/9/2006	Specifies the qualification criteria for an enterprise and personnel performing sampling and groundwater measurement services so that all have the appropriate experience, knowledge and qualifications as well as the correct equipment for and groundwater measurements for the task to be carried out according to ISO 22475-1.	Water and Wastewater Systems				<p>Foreword</p> <p>Introduction</p> <p>1 Scope</p> <p>2 Normative references</p> <p>3 Terms and definitions</p> <p>4 Requirements</p> <p>Bibliography</p>

H.248.81	Gateway Control Protocol: Guidelines on the Use of the International Emergency Preference Scheme (IEPS) Call Indicator and Priority Indicator in H.248 Profiles	1/5/2011	Specifies guidelines on the use of the international emergency preference scheme (IEPS) call indicator and priority indicator in ITU-T H.248 profiles for ITU-T H.323 and NGN systems.	Emergency Services	Communications			<ul style="list-style-type: none"> 1 Scope 2 References 3 Definitions 4 Abbreviations and acronyms 5 Conventions 6 Relation to other ITU-T Recommendations 7 Functional requirements 8 ITU-T H.248 profile specification guidelines Appendix I - Overall example traffic model for decomposed gateways Bibliography
ITU E.106	INTERNATIONAL EMERGENCY PREFERENCE SCHEME FOR DISASTER RELIEF OPERATIONS (IEPS)	1/10/2003	Describes an international preference scheme for the use of public telecommunications by national authorities for emergency and disaster relief operations.	Emergency Services	Information Technology	communications		<ul style="list-style-type: none"> 1 Scope 2 References 3 Definitions 4 Abbreviations 5 Overall functional requirements 6 IEPS features 7 Operational management of the IEPS Annex A - Features and techniques to enhance call completion <ul style="list-style-type: none"> A.1 Priority dial tone A.2 Priority call setup message through national and international signalling network with call identifier A.3 Priority indicator in bearer networks A.4 Exemption from restrictive management controls A.5 Survivable access and egress from end user location to PSTN/ISDN/PLMN A.6 IEPS user verification A.7 Special announcements on call progress A.8 Special routing capabilities A.9 Call forwarding

ITU E.409	INCIDENT ORGANIZATION AND SECURITY INCIDENT HANDLING: GUIDELINES FOR TELECOMMUNICATION ORGANIZATIONS	1/5/2004	Provides analyse, structure and suggest a method for establishing an incident management organization within a telecommunication organization involved in the provision of international telecommunications, where the flow and structure of an incident are focused.	Information Technology	Communications			1 Introduction 1.1 Scope 1.2 Definitions 1.3 Rationale 2 System description 2.1 Structure and flow 2.2 Incident flow 3 Incident handling system BIBLIOGRAPHY
ITU L.92	DISASTER MANAGEMENT FOR OUTSIDE PLANT FACILITIES	1/10/2012	Provides an overview of the technical considerations for protecting outside plant facilities from natural disasters.	Commercial Facilities	Government Facilities	Emergency Services		1 Scope 2 References 3 Definitions 4 Abbreviations and acronyms 5 Conventions 6 Natural disasters 7 Technical considerations 8 Disaster management for outside plant facilities Appendix I - Korean experience Appendix II - Japanese experiences - earthquake countermeasures for underground facilities Appendix III - Answers to the questionnaire on "Technical considerations on protecting outside plant facilities from natural disasters" Bibliography
ITU R BO 1774	USE OF SATELLITE AND TERRESTRIAL BROADCAST INFRASTRUCTURES FOR PUBLIC WARNING, DISASTER MITIGATION AND RELIEF	1/4/2007		communications	Information Technology	Emergency Services		

ITU R F 1105	FIXED WIRELESS SYSTEMS FOR DISASTER MITIGATION AND RELIEF OPERATIONS	1/2/2014		communications	Information Technology	Emergency Services		Annex 1 - Descriptions of fixed wireless systems for disaster mitigation and relief operations 1 System characteristics 2 Engineering principles 2.1 Low-capacity links (Type A system) 2.2 Local radio networks (Type B system) 2.3 Links up to 120 channels (Type C system) 2.4 Links up to 480 channels (Type D system) 2.5 High capacity links (Type E system) 2.6 Regional simultaneous communication system (Type F system) 3 Transmission performance Appendix 1 to Annex 1 - Features and applications of Regional Digital Simultaneous Communication System for disaster prevention and relief operations
ITU R M 1179	PROCEDURES FOR DETERMINING THE INTERFERENCE COUPLING MECHANISMS AND MITIGATION OPTIONS FOR SYSTEMS OPERATING IN BANDS ADJACENT TO AND IN HARMONIC RELATIONSHIP WITH RADAR STATIONS IN THE RADIODETERMINATION SERVICE	1/10/1995		communications	Information Technology			
ITU R M 1637	GLOBAL CROSS-BORDER CIRCULATION OF RADIOCOMMUNICATION EQUIPMENT IN EMERGENCY AND DISASTER RELIEF SITUATIONS	1/6/2003		communications	Information Technology	Emergency Services		

ITU SERIES X SUPP 10	ITU-T X.1205 - Supplement on usability of network traceback	1/9/2011	Gives an overview of traceback for responsive measures to certain network issues within a single or a more complex array of service providers.	Information Technology				<ul style="list-style-type: none"> 1 Scope 2 References 3 Definitions 4 Abbreviations 5 Conventions 6 Traceback introduction 7 Possible traceback capabilities in networks 8 Potential applications of traceback Bibliography
ITU SERIES X SUPP 11	ITU-T X.1245 - Supplement on framework based on real-time blocking lists for countering VoIP spam	1/9/2011	Gives a technical framework based on a real-time blocking list (RBL) for countering voice over Internet protocol (VoIP) spam, which consists of four functional entities: a VoIP spam prevention system (VSPS), a VoIP spam prevention policy server (VSPPS), an RBL central system for VoIP spam prevention (VSP-RBL), and a user-reputation system (URS).	Information Technology	Communications			<ul style="list-style-type: none"> 1 Scope 2 References 3 Terms and definitions 4 Abbreviations and acronyms 5 Conventions 6 Overview of VoIP spam 7 Functional architecture for countering VoIP spam 8 RBL update procedures for countering VoIP spam Bibliography
ITU SERIES X SUPP 12	ITU-T X.1240 - Supplement on overall aspects of countering mobile messaging spam	1/3/2012	Specifies the basic concept and characteristics of mobile messaging spam.	Information Technology	Communications			<ul style="list-style-type: none"> 1 Scope 2 References 3 Definitions 4 Abbreviations and acronyms 5 Conventions 6 Overview of mobile messaging spam 7 Current technologies for countering mobile messaging spam 8 Analysis for countering mobile messaging spam Appendix I - Activities on countering mobile messaging spam Bibliography

ITU SERIES X SUPP 13	ITU-T X.1051 - Supplement on information security management users' guide for Recommendation ITU-T X.1051	1/9/2012	Provides additional explanations and further implementation guidance for each clause and control specified in Recommendation ITU-T X.1051.	Information Technology				<ul style="list-style-type: none"> 1 Scope 2 References 3 Definitions and abbreviations 4 Overview 5 Security policy 6 Organization of information security 7 Asset management 8 Human resources security 9 Physical and environmental security 10 Communications and operations management 11 Access control 12 Information systems acquisition, development and maintenance 13 Information security incident management 14 Business continuity management 15 Compliance Annex A - Telecommunications extended control set Bibliography
ITU SERIES X SUPP 18	SUPPLEMENT ON GUIDELINES FOR ABNORMAL TRAFFIC DETECTION AND CONTROL ON IP-BASED TELECOMMUNICATION NETWORKS	1/4/2013	Specifies abnormal traffic detection technologies and control measures for IP-based telecommunication networks.	Information Technology	Communications			<ul style="list-style-type: none"> 1 Scope 2 References 3 Definitions 4 Abbreviations and acronyms 5 Conventions 6 Impacts of abnormal traffic on telecommunication networks 7 Abnormal traffic detection technology 8 Abnormal traffic control measures Appendix I - Overview of anomaly detection algorithms, systems and practices Bibliography

ITU SERIES X SUPP 18	Supplement to ITU-T X-series Recommendations	1/4/2013	Specifies abnormal traffic detection technologies and control measures for IP-based telecommunication networks.	Information Technology	Communications			<ul style="list-style-type: none"> 1 Scope 2 References 3 Definitions 4 Abbreviations and acronyms 5 Conventions 6 Impacts of abnormal traffic on telecommunication networks 7 Abnormal traffic detection technology 8 Abnormal traffic control measures Appendix I - Overview of anomaly detection algorithms, systems and practices Bibliography
ITU SERIES X SUPP 19	ITU-T X.1120-X.1139 SERIES - SUPPLEMENT ON SECURITY ASPECTS OF SMARTPHONES	1/4/2013	Aims to protect the personal privacy of users and to improve information security of smartphones.	Information Technology	Communications			<ul style="list-style-type: none"> 1 Scope 2 References 3 Definitions 4 Abbreviations and acronyms 5 Conventions 6 General aspects 7 Threats to smartphones 8 Security framework of smartphones 9 Security solutions for smartphones Bibliography
ITU SERIES X SUPP 19	SUPPLEMENT ON SECURITY ASPECTS OF SMARTPHONES	1/4/2013	Aims to protect the personal privacy of users and to improve information security of smartphones.	Information Technology	Communications			<ul style="list-style-type: none"> 1 Scope 2 References 3 Definitions 4 Abbreviations and acronyms 5 Conventions 6 General aspects 7 Threats to smartphones 8 Security framework of smartphones 9 Security solutions for smartphones Bibliography

ITU SERIES X SUPP 2	ITU-T X.800-X.849 SERIES - SUPPLEMENT ON SECURITY BASELINE FOR NETWORK OPERATORS	1/9/2007	Describes a security baseline against which network operators can assess their network and information security status in terms of readiness and ability to collaborate with other entities (operators, users and law enforcement authorities) to counteract information security threats.	Information Technology	Communications			<ul style="list-style-type: none"> 1 Scope 2 References 3 Definitions <ul style="list-style-type: none"> 3.1 Terms defined elsewhere 3.2 Terms defined in this supplement 4 Abbreviations and acronyms 5 Conventions 6 Operator's policy baseline and implementation 7 Technical tools baseline 8 Collaboration baseline Bibliography
ITU SERIES X SUPP 20	ITU-T X.1205 - SUPPLEMENT ON FRAMEWORK OF SECURITY INFORMATION SHARING NEGOTIATION	1/4/2013	Specifies a framework for negotiating agreement on security information sharing between cybersecurity entities such as information requester and information provider.	Information Technology	Communications			<ul style="list-style-type: none"> 1 Scope 2 References 3 Definitions 4 Abbreviations and acronyms 5 Conventions 6 Introduction 7 Functional capabilities for security information sharing negotiation 8 Reference model of security information negotiation 9 Life cycle and data model of SSA 10 Process of SSA negotiation Appendix I - The example of security information sharing negotiation Bibliography

ITU SERIES X SUPP 7	ITU-T X.1250 SERIES - SUPPLEMENT ON OVERVIEW OF IDENTITY MANAGEMENT IN THE CONTEXT OF CYBERSECURITY	1/2/2009	Gives greater assurance and trust in user, service provider, and network device identities, it improves security by reducing exposure to security risks.	Information Technology	Communications			<ul style="list-style-type: none"> 1 Scope 2 References 3 Definitions 4 Abbreviations and acronyms 5 Conventions 6 Importance of IdM to global network infrastructure protection and multi-national coordination for security 7 Identity management as an enabler of trusted communication between two entities 8 Protection, maintenance, revocation and control of identity data 9 "Discovery" of trusted sources of identity data 10 Electronic government services (e-government services) 11 Regulatory considerations in connection with IdM
ITU SERIES X SUPP 9	ITU-T X.1205 - SUPPLEMENT ON GUIDELINES FOR REDUCING MALWARE IN ICT NETWORKS	1/9/2011	Specifies guidelines that can be utilized by end users to reduce malware in information and communication technology (ICT) networks.	Information Technology	Communications			<ul style="list-style-type: none"> 1 Scope 2 References 3 Definitions 4 Abbreviations and acronyms 5 Conventions 6 Guidelines for reducing malware in ICT networks Bibliography

ITU X.1303	Common alerting protocol (CAP 1.1)	1/9/2007	Specifies both an XSD specification and an equivalent ASN.1 specification (that permits a compact binary encoding) and allows the use of ASN.1 as well as XSD tools for the generation and processing of CAP messages.	Information Technology	Communications			<ul style="list-style-type: none"> 1 Scope 2 References 3 Definitions 4 Abbreviations and acronyms 5 Conventions 6 Design principles and concepts <ul style="list-style-type: none"> 6.1 Design philosophy 6.2 Examples of requirements for design 6.3 Examples of use scenarios 7 Alert message structure <ul style="list-style-type: none"> 7.1 Document object model 7.2 Data dictionary 7.3 Implementation considerations 7.4 XML schema 8 Use of ASN.1 to specify and encode the CAP alert message <ul style="list-style-type: none"> 8.1 General 8.2 Formal mappings and specification Appendix I - CAP alert message examples <ul style="list-style-type: none"> I.1 Homeland security advisory system alert I.2 Severe thunderstorm warning I.3 Earthquake report I.4 AMBER alert (Including EAS)
ITU X.1312	SECURITY FRAMEWORK FOR UBIQUITOUS SENSOR NETWORKS	1/2/2011	Specifies guidelines for ubiquitous sensor networks (USN) middleware security.	Information Technology	Communications			<ul style="list-style-type: none"> 1 Scope 2 References 3 Definitions 4 Abbreviations 5 Overview of USN middleware security 6 Security threats to USN middleware 7 Security requirements for USN middleware 8 Guidelines for USN middleware security

ITU X.1313	Security requirements for wireless sensor network routing	1/10/2012	Specifies the security requirements for wireless sensor network routing.	Information Technology	Communications			<ul style="list-style-type: none"> 1 Scope 2 References 3 Definitions 4 Abbreviations and acronyms 5 Conventions 6 Characteristics of general network topologies and routing protocols on security considerations for wireless sensor networks (WSN) 7 Requirements for secure routing Appendix I - Overview of wireless sensor routing protocols Bibliography
ITU X.1500	Overview of cybersecurity information exchange	1/3/2012	Specifies techniques for exchanging cybersecurity information.	Information Technology				<ul style="list-style-type: none"> 1 Scope 2 References 3 Definitions 4 Abbreviations and acronyms 5 Conventions 6 Basic concept - Cybersecurity information exchange (CYBEX) 7 Structured cybersecurity information exchange techniques Appendix I - Structured cybersecurity information exchange techniques Appendix II - A cybersecurity information exchange ontology Appendix III - CYBEX examples of security automation schemas Bibliography

ITU X.1500.1	Procedures for the registration of arcs under the object identifier arc for cybersecurity information exchange	1/3/2012	Gives the registration of OID arcs which enable coherent, unique and global identification of cybersecurity information as well as for organizations exchanging that information and associated policies.	Information Technology				<ul style="list-style-type: none"> 1 Scope 2 References 3 Definitions 4 Abbreviations and acronyms 5 Conventions 6 General 7 Responsibilities of the Registration Authority (RA) 8 Criteria for acceptance 9 Detailed procedures for the operation of the RA 10 Appeals process Annex A - Register of arcs allocated under the Cybersecurity OID arc Annex B - Rules for allocation of arcs under the country arc Annex C - Rules for allocation of arcs under the international-org arc
ITU X.1520	Common vulnerabilities and exposures	1/4/2011	Gives a structured means to exchange information security vulnerabilities and exposures that provides common names for publicly known problems in the commercial or open source software used in communications networks, end-user devices, or any of the other types of information and communications technology (ICT) capable of running software.	Information Technology	Communications			<ul style="list-style-type: none"> 1 Scope 2 References 3 Definitions 4 Abbreviations and acronyms 5 Conventions 6 High-level requirements 7 Accuracy 8 Documentation 9 CVE date usage 10 Old style CVE name support 11 Revocation of CVE compatibility 12 Review authority Annex A - Type-specific requirements Annex B - Media requirements Annex C - Media requirements

ITU X.1521	Common vulnerability scoring system	2011	Gives an open framework for communicating the characteristics and impacts of information and communication technologies (ICT) vulnerabilities in the commercial or open source software used in communications networks, end user devices, or any of the other types of ICT capable of running software.	Information Technology	Communications			<ul style="list-style-type: none"> 1 Scope 2 References 3 Definitions 4 Abbreviations and acronyms 5 Conventions 6 Use of CVSS 7 Additional resources Appendix I - Usage examples for CVSS Appendix II - Additional resources Bibliography
ITU X.1524	Common weakness enumeration	1/3/2012	Specifies a structured means to exchange information security weaknesses that provides common names for publicly known problems in the commercial or open source software used in communication networks, end user devices, or any of the other types of information and communications technology (ICT) capable of running software.	<i>Information Technology</i>	Communications			<ul style="list-style-type: none"> 1 Scope 2 References 3 Definitions 4 Abbreviations and acronyms 5 Conventions 6 High-level requirements 7 Accuracy 8 Effectiveness 9 Documentation 10 CWE version usage 11 Revocation of CWE compatibility 12 Review authority Annex A - Type-specific requirements Annex B - Media requirements Appendix I - List of CWE repositories for identifiers and the associated context information Appendix II - List of review authorities Bibliography

ITU X.1526	Open vulnerability and assessment language	1/4/2013	Specifies the three main steps of the assessment process: representing configuration information of systems for testing; analysing the system for the presence of the specified machine state (vulnerability, configuration, patch state, etc.) and reporting the results of this assessment.	Information Technology	Communications			<ul style="list-style-type: none"> 1 Scope 2 References 3 Definitions 4 Abbreviations and acronyms 5 Conventions 6 High-level requirements 7 Correctness 8 Documentation 9 Validity 10 Specific capability requirements 11 Review authority requirements 12 Revocation Bibliography
ITU X.1528	Common platform enumeration	1/9/2012	Specifies a structured method of describing and identifying classes of applications, operating systems, and hardware devices present among an enterprise's computing assets.	Information Technology				<ul style="list-style-type: none"> 1 Scope 2 References 3 Definitions 4 Abbreviations and acronyms 5 Conventions 6 High-level requirements
ITU X.1528.1	Common platform enumeration naming	1/9/2012	Describes the logical structure of names for IT product classes and the procedures for binding and unbinding these names to and from machine-readable encodings.	Information Technology				<ul style="list-style-type: none"> 1 Scope 2 References 3 Definitions 4 Abbreviations and acronyms 5 Conventions 6 CPE naming specification
ITU X.1528.2	Common platform enumeration name matching	1/9/2012	Describes the specification for common platform enumeration (CPE) name matching.	Information Technology				<ul style="list-style-type: none"> 1 Scope 2 References 3 Definitions 4 Abbreviations and acronyms 5 Conventions 6 Name matching specification

ITU X.1528.3	Common platform enumeration dictionary	1/9/2012	Describes the common platform enumeration (CPE) dictionary specification.	Information Technology				<ul style="list-style-type: none"> 1 Scope 2 References 3 Definitions 4 Abbreviations and acronyms 5 Conventions 6 Dictionary specification
ITU X.1528.4	Common platform enumeration applicability language	1/7/2012	Describes the specification for common platform enumeration (CPE) applicability language.	Information Technology				<ul style="list-style-type: none"> 1 Scope 2 References 3 Definitions 4 Abbreviations and acronyms 5 Conventions 6 Applicability language specification
ITU X.1544	Common attack pattern enumeration and classification	1/4/2013	Specifies XML/XSD-based specification for the identification, description, and enumeration of attack patterns.	Information Technology				<ul style="list-style-type: none"> 1 Scope 2 References 3 Definitions 4 Abbreviations and acronyms 5 Conventions 6 High-level requirements 7 Accuracy 8 Documentation 9 CAPEC version usage 10 Revocation of CAPEC compatibility 11 Review authority Annex A - Type-specific requirements Annex B - Media requirements Bibliography

ITU X.1570	Discovery mechanisms in the exchange of cybersecurity information	1/9/2011	Specifies a framework for discovering cybersecurity information and the mechanism that enables this.	Information Technology				<ul style="list-style-type: none"> 1 Scope 2 References 3 Definitions 4 Abbreviations and acronyms 5 Conventions 6 Framework to identify and locate the source of cybersecurity information 7 Types and level of details of discovered cybersecurity information 8 Cybersecurity information identifier 9 Types of discovery mechanisms 10 Methods available for access to discovered information Appendix I - Cybersecurity operational information ontology Appendix II - Specifications describing databases and knowledge bases Appendix III - An illustrated implementation of RDF-based discovery Bibliography
ITU X.1580	Real-time inter-network defence	1/9/2012	Specifies a proactive inter-network communication method to facilitate the automation of sharing incident handling information.	Information Technology				<ul style="list-style-type: none"> 1 Scope 2 References 3 Definitions 4 Abbreviations and acronyms 5 Conventions 6 Real-time inter-network defence Bibliography

ITU Y.1271	Framework(s) on network requirements and capabilities to support emergency telecommunications over evolving circuit-switched and packet-switched networks	1/10/2004	Provides an overview of the basic requirements, features, and concepts for emergency telecommunications that evolving networks are capable of providing.	Information Technology	Emergency Services	communications		<ul style="list-style-type: none"> 1 Introduction 2 Scope 3 References 4 Definitions 5 Abbreviations 6 Security 7 Consideration <ul style="list-style-type: none"> 7.1 The nature of emergency situations 7.2 Emergency response 7.3 Assured telecommunications 8 Emergency telecommunications requirements and capabilities <ul style="list-style-type: none"> 8.1 Enhanced priority treatment 8.2 Secure networks 8.3 Location confidentiality 8.4 Restorability 8.5 Network connectivity 8.6 Interoperability 8.7 Mobility 8.8 Ubiquitous coverage 8.9 Survivability/endurability 8.10 Voice transmission 8.11 Scaleable bandwidth 8.12 Reliability/availability Annex A - A possible distinction between essential and
ITU Y.1901	Requirements for the support of IPTV services	2009		Information Technology				
ITU Y.2171	Admission control priority levels in Next Generation Networks	1/9/2006	Describes three levels for admission control priority for services seeking entry into Next Generation Networks.	Information Technology				<ul style="list-style-type: none"> 1 Scope 2 References 3 Definitions 4 Abbreviations 5 Introduction and rationale 6 Recommendation for admission control priority levels 7 Implementation example of priority levels with RACF BIBLIOGRAPHY

ITU Y.2201	NGN RELEASE 1 REQUIREMENTS	1/4/2007	Describes high-level requirements for services and capabilities of Next Generation Network (NGN) release 1.	Information Technology				<ul style="list-style-type: none"> 1 Scope 2 References 3 Definitions <ul style="list-style-type: none"> 3.1 Terms defined elsewhere 3.2 Terms defined in this Recommendation 4 Abbreviations and acronyms 5 Conventions 6 Capability requirements for NGN release 1 <ul style="list-style-type: none"> 6.1 Transport connectivity 6.2 Communication modes 6.3 Media resource management 6.4 Codecs 6.5 Access network and network attachment 6.6 User networks 6.7 Interconnection, interoperability and interworking 6.8 Routing 6.9 Quality of Service 6.10 Accounting and charging 6.11 Numbering, naming and addressing 6.12 Identification, authentication and authorization 6.13 Security
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ITU Y.2701	Security requirements for NGN release 1	1/4/2007	Covers security requirements for next generation networks (NGNs) and its interfaces (e.g., UNIs, NNIs and ANIs) by applying ITU-T Rec. X.805, Security architecture for systems providing end-to-end communications to ITU-T Recs. Y.2201, NGN release 1 requirements and Y.2012, Functional requirements and architecture of the NGN release 1.	Information Technology				<ul style="list-style-type: none"> 1 Scope 1.1 X.805 principles 1.2 Assumptions 1.3 Overview 2 References 3 Definitions and abbreviations 3.1 Terms defined elsewhere 3.2 Terms defined in this Recommendation 3.3 Abbreviations and acronyms 4 Security threats and risks 5 Security trust model 5.1 Single network trust model 5.2 Peering network trust model 6 Security architecture 6.1 Functional NGN architecture reference 6.2 Mapping to NGN functional architecture 6.3 Identification of NGN resources for security protection 7 Objectives and requirements 7.1 General security objectives 7.2 Objectives for security across multiple network provider domains 7.3 Requirements specific for
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ITU Y.2721	NGN identity management requirements and use cases	1/9/2010	Specifies identity management (IdM) example use cases and requirements for the next generation network (NGN) and its interfaces.	Information Technology				<ul style="list-style-type: none"> 1 Scope 2 References 3 Definitions 4 Abbreviations and acronyms 5 Conventions 6 IdM overview 7 IdM objectives 8 IdM requirements Appendix I - General IdM use cases Appendix II - IdM use cases for NGN applications Appendix III - Emergency telecommunications service (ETS) related IdM use cases Appendix IV - Mobile-related use cases Appendix V - Example IdM transaction models Appendix VI - Example illustrative deployment scenario for IdM in NGN Bibliography
ITU Y.2723	Support for OAuth in NGN	1/11/2013	Describes the mechanisms and procedures for employing "The OAuth 2.0 Authorization Framework (OAuth)", defined by the Internet Engineering Task Force, for the scenarios where the role of the OAuth authorization server is performed by a next generation network (NGN) provider.	Information Technology				<ul style="list-style-type: none"> 1 Scope 2 References 3 Definitions 4 Abbreviations and acronyms 5 Conventions 6 Support for OAuth in NGN Bibliography

ITU Y.2724	Framework for NGN support and use of OpenID and OAuth	1/11/2013	Specifies a framework for the support and use of the IETF open authorization protocol (OAuth) and the OpenID protocol in the context of next generation networks (NGNs).	Information Technology				<ul style="list-style-type: none"> 1 Scope 2 References 3 Definitions 4 Abbreviations and acronyms 5 Conventions 6 Framework for supporting OAuth and OpenID in NGN Appendix I - Selected use cases Bibliography
ITU Y.2740	Security requirements for mobile remote financial transactions in next generation networks	1/1/2011	Specifies approaches to develop system security for mobile commerce and mobile banking in the next generation networks (NGN).	Information Technology				<ul style="list-style-type: none"> 1 Scope 2 References 3 Definitions 4 Abbreviations and acronyms 5 Conventions 6 Security considerations for mobile banking and mobile commerce systems in the next generation network Bibliography
ITU Y.2741	Architecture of secure mobile financial transactions in next generation networks	1/1/2011	Describes the general architecture of a security solution for mobile commerce and mobile banking in the context of NGN.	Information Technology	Communications			<ul style="list-style-type: none"> 1 Scope 2 References 3 Definitions 4 Abbreviations and acronyms 5 Conventions 6 Roles, risks, participants, and scenarios of mobile payments in NGN 7 Transition from the token payment systems Appendix I - Enrol a payment instrument in the system Appendix II - Mobile banking and mobile commerce systems implementation models Bibliography

ITU Y.2760	Mobility security framework in NGN	1/5/2011	Describes the mobility security framework in next generation network (NGN) transport stratum.	Information Technology				<ul style="list-style-type: none"> 1 Scope 2 References 3 Definitions 4 Abbreviations and acronyms 5 Security requirements for mobility in NGN 6 Security capabilities supported by relevant function entities 7 Key management and authentication 8 Establishment of security context 9 IP mobility security 10 Security between UE and HDC-FE 11 Security between UE and NID-FE 12 Security for transport functions Appendix I Bibliography
ITU Y.2770	Requirements for deep packet inspection in next generation networks	1/5/2013	Describes the requirements for deep packet inspection (DPI) in next generation networks (NGNs).	Information Technology				<ul style="list-style-type: none"> 1 Scope 2 References 3 Definitions 4 Abbreviations and acronyms 5 Conventions 6 DPI functional entity requirements 7 Functional requirements from the network viewpoint 8 Interfaces of the DPI-functional entity 9 Security considerations and requirements Annex A - Specification of a flow descriptor Bibliography
ITU-T X.1541	Incident object description exchange format	2012		Information Technology				

ITU-T X.1581	Transport of real-time inter-network defence messages	1/9/2012	Describes a transport protocol for real-time inter-network defence (RID) based upon the passing of RID messages over hypertext transfer protocol/transport layer security (HTTP/TLS).	Information Technology					1 Scope 2 References 3 Definitions 4 Abbreviations and acronyms 5 Conventions 6 Transport of real-time inter-network defence Bibliography
ITU-T X.Sup14	ITU-T X.1243 - Supplement on a practical reference model for countering e-mail spam using botnet information	2012		Information Technology					
ITU-T X.Sup15	ITU-T X.800-X.849 series - Supplement on guidance for creating a national IP-based public network security centre for developing countries	2012		Information Technology					
ITU-T X.Sup16	ITU-T X.800-X.849 series - Supplement on architectural systems for security controls for preventing fraudulent activities in public carrier networks	2012		Information Technology					
ITU-T X.Sup17	ITU-T X.1143 - Supplement on threats and security objectives for enhanced web-based telecommunication services	2012		Information Technology					
ITU-T X.Sup3	Supplement on guidelines for implementing system and network security	2008		Information Technology					
ITU-T X.Sup6	Supplement on countering spam and associated threats	2009		Information Technology					
ITU-T X.Sup8	ITU-T X.1205 – Supplement on best practices against botnet threats	2010		Information Technology					

ITU-T Y.2614	Network reliability in public telecommunication data networks	2011		Information Technology	Communications			
ITU-T Y.2702	Authentication and authorization requirements for NGN release 1	2008		Information Technology				
ITU-T Y.2703	The application of AAA service in NGN	2009		Information Technology				
ITU-T Y.2704	Security mechanisms and procedures for NGN	2010		Information Technology				
ITU-T Y.2705	Minimum security requirements for the interconnection of the Emergency Telecommunications Service (ETS)	2013		Information Technology	Communications			
ITU-T Y.2720	NGN Identity management framework	2009		Information Technology				
ITU-T Y.2722	NGN identity management mechanisms	2011		Information Technology				
ITU-T Y.Sup12	ITU-T Y.2720 – Supplement on NGN identity management mechanisms	2010		Information Technology				
ITU-T Y.Sup18	ITU-T Y.2700-series - Supplement on next generation network certificate management	2012		Information Technology				
ITU-T Y.Sup19	Y.2200 series Supplement on the risk analysis service in next generation networks	2012		Information Technology				
X.sfcse	Security functional requirements for Software as a Service (SaaS) application environment			Information Technology				

IWA 6	Guidelines for the management of drinking water utilities under crisis conditions	29/4/2008	Provides the guidelines for a water utility, or any body responsible for the management of parts of the water supply system, to be prepared and ready to manage a water crisis.	Water and Wastewater Systems				<p>Foreword Workshop contributors Background Introduction Guidelines for the management of drinking water utilities under crisis conditions 1 Scope 2 Terms and definitions 3 Framework for management of a water crisis Annex A (informative) Preparedness stage - List of elements Annex B (informative) Response stage - List of elements Annex C (informative) Recovery stage - Relevant procedures Annex D (informative) Subjects for which detailed standards could be prepared Annex E (informative) Technological instruments, means and models for ensuring drinking water security Bibliography</p>
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ISA 71.04	Environmental Conditions for Process Measurement and Control Systems: Airborne Contaminants	3/2/1986	Describes airborne contaminants and biological influences that affect industrial process measurement and control equipment, electronic office equipment, and data center and network equipment.	Commercial Facilities	Government Facilities			<p>Foreword</p> <p>1 Purpose</p> <p>2 Scope</p> <p>3 Definitions</p> <p>4 Introduction</p> <p>5 Airborne contaminants - liquids</p> <p>6 Airborne contaminants - solids</p> <p>7 Airborne contaminants - gases</p> <p>8 Biological influences</p> <p>Annexes</p> <p>Annex A - Measuring deliquescent relative humidity of dust</p> <p>Annex B - Corrosive contaminants</p> <p>Annex C - Copper and silver reactivity samples</p>
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ISA 84.00.01-3	FUNCTIONAL SAFETY: SAFETY INSTRUMENTED SYSTEMS FOR THE PROCESS INDUSTRY SECTOR - PART 3: GUIDANCE FOR THE DETERMINATION OF THE REQUIRED SAFETY INTEGRITY LEVELS - INFORMATIVE	2/9/2004	Covers information on: - the underlying concepts of risk, the relationship of risk to safety integrity; - the determination of tolerable risk; - a number of different methods that enable the safety integrity levels for the safety instrumented functions to be determined.	Critical Manufacturing	business continuity			<p>UNITED STATES NATIONAL FOREWORD IEC FOREWORD INTRODUCTION 1 Scope 2 Definitions and abbreviations 3 Risk and safety integrity - general guidance 3.1 General 3.2 Necessary risk reduction 3.3 Role of safety instrumented systems 3.4 Safety integrity 3.5 Risk and safety integrity 3.6 Allocation of safety requirements 3.7 Safety integrity levels 3.8 Selection of the method for determining the required safety integrity level Annex A (informative) As Low As Reasonably Practicable (ALARP) and tolerable risk concepts A.1 General A.2 ALARP model Annex B (informative) Semi-quantitative method B.1 General B.2 Compliance to ANSI/ISA-84.00.01-2004 Part 1 B.3 Example Annex C (informative) The safety layer matrix method C.1 Introduction C.2 Process safety target C.3 Hazard analysis C.4 Risk analysis technique C.5 Safety layer matrix</p>
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ISA TR99.00.02	Integrating Electronic Security into the Manufacturing and Control Systems Environment	10/10/2004	Gives a consistent approach for developing, implementing, and operating a program that addresses security for Manufacturing and Control Systems.	Critical Manufacturing	Information Technology			<ul style="list-style-type: none"> 1 Scope 2 Purpose 3 Intended Audience 4 General Terms and Definitions 5 Background 6 Developing a Security Program <ul style="list-style-type: none"> 6.1 Leadership Commitment 6.2 Develop a Business Case 6.3 Develop a Charter or Scope 6.4 Program Tasks 6.5 Special Considerations for Manufacturing and Control Systems 6.6 Program 6.7 Manufacturing and Control System Change Management Plan 6.8 The Security Lifecycle 6.9 Program Step Details 7 Define Risk Goals 8 Assess and Define Existing System <ul style="list-style-type: none"> 8.1 Form Cross-Functional Team 8.2 Pre-Risk Analysis Activities 8.3 Update the Screening Inventory 8.4 Make Preliminary Assessment of Overall Vulnerability 9 Conduct Risk Assessment and Gap
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ITG 014	DISASTER RECOVERY AND BUSINESS CONTINUITY - A QUICK GUIDE FOR SMALL ORGANIZATIONS AND BUSY EXECUTIVES	2008		Business Continuity	Emergency Services			CHAPTER 1: Introduction to Disaster Recovery and Business Continuity CHAPTER 2: Data Disasters CHAPTER 3: Virus Disasters CHAPTER 4: Communication System Disasters CHAPTER 5: Software Disasters CHAPTER 6: Data Centre Disasters CHAPTER 7: IT Staff Disasters CHAPTER 8: IT Vendor Disasters CHAPTER 9: IT Project Failures CHAPTER 10: Information Security CHAPTER 11: Disaster Recovery Tools CHAPTER 12: Introduction to Non-IT Disasters CHAPTER 13: Disaster Recovery at Home CHAPTER 14: Plenty of Questions CHAPTER 15: How Do I Get Started? APPENDIX 1: Sources of Further Information APPENDIX 2: Disaster Recovery Training and Certification APPENDIX 3: Business Continuity Standards APPENDIX 4: Making DR and BC Exciting APPENDIX 5: Disaster Recovery Glossary APPENDIX 6: ITG resources
KS F 2301	Practice for Preparing Disturbed Soil Samples for Soil Testing	1995		Food and Agriculture				
KS F 2318	Methods for Penetration Test and Split-Barrel Sampling of Soils	1991		Food and Agriculture				
KS F 2319	Method for Soil Investigation and Sampling by Auger Borings	1991		Food and Agriculture				
KS F 2341	Standard Methods for Wet Preparation of Soil Samples for Particle Size Analysis and Determination of Soil Constants	1979		Food and Agriculture				
KSF 2348	Methods for Ring-Lined Barrel Sampling of Soils	1978		Food and Agriculture				

MIL-DTL-16377/77	Fixtures, Lighting; Emergency Ballast, for One 17-or 20-Watt T12 or 17-Watt T8 Fluorescent Lamp	18/12/2008		Emergency Services				
MIL-DTL-16377/82	Fixtures, Lighting; T8 Fluorescent, Emergency Lighting, 17 Watts, 120 Volts, 60 Hertz, Watertight, Symbols 331.1T8EM, 331.2T8EM, 347.2T8EM, and 347.3T8EM	18/12/2008		Emergency Services				
MIL-HDBK-1200	CHEMICAL AND BIOLOGICAL (CB) AGENTS DETECTION AND MONITORING SYSTEMS	30/12/2013	Provides a basic knowledge of the operational effects of CB agents, a description of the operational environment and requirements for CB detection, an explanation of past technologies being explored to meet CB detection requirements and an explanation of CB detection system design criteria and components.	Emergency Services	Chemical	Defense Industrial Base		
MIL-HDBK-783	CHEMICAL AND BIOLOGICAL (CB) CONTAMINATION AVOIDANCE AND DECONTAMINATION	26/11/2013	Covers; warfare history; contaminants; protection, detection and contamination control; decontamination, methods and equipment; material and design considerations; future concepts.	Emergency Services	Chemical	Defense Industrial Base		
MIL-PRF-38039D	Systems, illuminated, warning, caution, and advisory, general specification for	14/8/2013	Specifies the general requirements for illuminated warning, caution, and advisory indicators and systems for use at aircrew stations.	communications	Emergency Services	Defense Industrial Base		<ol style="list-style-type: none"> 1. SCOPE 2. APPLICABLE DOCUMENTS 3. REQUIREMENTS 4. VERIFICATION 5. PACKAGING 6. NOTES

MIL-STD-2105	Hazard assessment tests for non-nuclear munitions	19/4/2011	Establishes tests and test procedures for assessment of explosive safety and insensitive munitions (IM) characteristics for all non-nuclear munitions, munition subsystems and explosive devices.	Defense Industrial Base				1. SCOPE 2. APPLICABLE DOCUMENTS 3. DEFINITIONS 4. GENERAL REQUIREMENTS 5. DETAILED REQUIREMENTS 6. NOTES
MIL-STD-322B NOT 2	Explosive components, electrically initiated, basic evaluation tests for	4/2/2013	Covers test requirements and designs for electrically initiated explosive components.	Defense Industrial Base				
MIL-W-71094 NOT 1	Waxes, coal-based, for use in r8150 explosive	3/10/2013		Defense Industrial Base				
NACE 35110	AC CORROSION STATE-OF-THE-ART: CORROSION RATE, MECHANISM, AND MITIGATION REQUIREMENTS	1/1/2010	Provides the current understanding of the corrosion phenomenon associated with alternating current (AC) interference on buried steel pipelines.	Energy	Water and Wastewater Systems	Transportation Systems		
NACE SP 01 02	IN-LINE INSPECTION OF PIPELINES	13/03/2010	Pertains to carbon steel pipeline systems used to transport natural gas, hazardous liquids including those containing anhydrous ammonia, carbon dioxide, water including brine, liquefied petroleum gases (LPG), and other services that are not detrimental to the function and stability of ILI tools.	Energy	Transportation Systems			1. General 2. Definitions 3. Tool Selection 4. Pipeline ILI Compatibility Assessment 5. Logistical Guidelines 6. Inspection Scheduling 7. New Construction - Planning for ILI Surveys 8. Data Analysis Requirements 9. Data Management References Bibliography Appendix A: Sample Pipeline Inspection Questionnaire (Nonmandatory)

NACE SP 01 77	MITIGATION OF ALTERNATING CURRENT AND LIGHTNING EFFECTS ON METALLIC STRUCTURES AND CORROSION CONTROL SYSTEMS	22/06/2007	Presents guidelines and procedures for use during design, construction, operation, and maintenance of metallic structures and corrosion control systems used to mitigate the effect of lightning and overhead alternating current (AC) power transmission systems.	Commercial Facilities	Government Facilities	Residential Facilities		1. General 2. Definitions 3. Exposures and Effects of Alternating Current and Lightning 4. Design Considerations for Protective Devices 5. Personnel Protection 6. AC and Corrosion Control Considerations 7. Special Consideration in Operation and Maintenance of Cathodic Protection and Safety Systems 8. References 9. Bibliography 10. Appendix A: Wire Gauge Conversions
NASA STD 8719.11	SAFETY STANDARD FOR FIRE PROTECTION	19/11/2008	Describes requirements and responsibilities related to NASA's Fire Protection Program. Also contains requirements for fire prevention, detection, control, and suppression through engineering, inspection, training, and firefighting.	Government Facilities	Defense Industrial Base			1. SCOPE 1.1 Purpose 1.2 Applicability 1.3 General Guidance 2. APPLICABLE AND REFERENCE DOCUMENTS 2.1 Applicable Documents 3. DEFINITIONS AND ACRONYMS 3.1 Definitions 3.2 Acronyms 4. FIRE PROTECTION REQUIREMENTS 4.1 Responsibilities 4.2 Legal Requirements, Codes, and Standards 4.3 Basis for Determining the Level of Fire Protection for Specialized Facilities 4.4 Required Acceptance Inspection and Tests of Fire Protection and Life Safety Systems 4.5 Equivalency 5. SITE PLANNING AND CIVIL ENGINEERING CRITERIA 5.1 Siting of Facilities 5.2 Water Supply Requirements for Fire Protection 5.3 Water Distribution System Criteria 6. ARCHITECTURAL FIRE PROTECTION CRITERIA 6.1 Life Safety Provisions 6.2 Segregation of Hazards 6.3 Open Plan Office Space 6.4 Interior Finishes 6.5 Fire Protection for Employees

NEMA IIC 1	Digital Imaging and Communications in Security (DICOS) Information Object Definitions (IODs)	29/8/2012	Specifies a data interchange protocol and interoperable, extensible file format to facilitate data information interchange (demographic information, x-ray radiographs, CT images, material specific information, trace detection signatures, threat assessment, etc.) of objects of inspection (checked luggage, carry-on luggage, parcels, personnel, etc.) for security screening applications.	Information Technology	Healthcare and Public Health			<p>Foreword</p> <p>Section 1 - Scope</p> <p>Section 2 - Overview</p> <p>Section 3 - OOI Owner Modules</p> <p>Section 4 - Object of Inspection (OOI) Modules</p> <p>Section 5 - General Scan Modules</p> <p>Section 6 - General Series Modules</p> <p>Section 7 - Computed Tomography (CT) Image Information Object Definition (IOD)</p> <p>Section 8 - Digital X-Ray (DX) Information Object Definition (IOD)</p> <p>Section 9 - Threat Detection Report (TDR) Information Object Definition (IOD)</p> <p>Section 10 - Common Information Entity (IE) Modules and Macros</p> <p>Section 11 - Data Transmission</p> <p>Section 12 - DICOS SOP Classes</p> <p>Section 13 - Index</p>
NEMA SB 11	Guide for Proper Use of System Smoke Detectors	29/9/2011	Provides information concerning the applications of smoke detectors used in conjunction with fire alarm systems. Outlines basic principles to be considered as well as operating characteristics of detectors and environmental factors that may either aid or prevent their operation.	Commercial Facilities	Government Facilities	Residential Facilities	Emergency Services	<p>Foreword</p> <p>SECTION 1 - GENERAL</p> <p>SECTION 2 - HOW SMOKE DETECTORS WORK</p> <p>SECTION 3 - TYPICAL SYSTEM LAYOUT</p> <p>SECTION 4 - PROPER DETECTOR PLACEMENT AND SPACING</p> <p>SECTION 5 - TESTING AND MAINTENANCE AND SERVICE OF DETECTORS</p> <p>SECTION 6 - NUISANCE ALARMS</p> <p>SECTION 7 - RESPONSIBILITIES OF DETECTOR OWNERS AND INSTALLERS</p>

ARTICLE 7 NFPC	Emergency Planning and Preparedness Eighth Edition	1990		Emergency Services				
NFPA 10	Portable Fire Extinguishers	17/12/2012	Pertains to the selection, installation, inspection, maintenance, recharging, and testing of portable fire extinguishers and Class D extinguishing agents.	Commercial Facilities	Government Facilities	Residential Facilities	Emergency Services	Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - General Requirements Chapter 5 - Selection of Portable Fire Extinguishers Chapter 6 - Installation of Portable Fire Extinguishers Chapter 7 - Inspection, Maintenance, and Recharging Chapter 8 - Hydrostatic Testing Annex A - Explanatory Material Annex B - Recommended Markings to Indicate Extinguisher Suitability According to Class of Fire Annex C - Fire Extinguisher Selection Annex D - Operation and Use Annex E - Distribution Annex F - Selection of Residential Fire-Extinguishing Equipment Annex G - Extinguisher Classification and Rating System Annex H - Conditions of Selection Annex I - Maintenance Procedures Annex J - Typical Specification of

NFPA 101B	MEANS OF EGRESS FOR BUILDINGS AND STRUCTURES	8/8/2002	Defines minimum criteria for the design of egress facilities in order to permit prompt escape of occupants from buildings or, where desirable, into safe areas within buildings.	Commercial Facilities	Government Facilities	Residential Facilities	Emergency Services	Chapter 1 Administration 1.1 Scope 1.2 Purpose. (Reserved) 1.3 Application 1.4 Equivalency 1.5 Units and Formulas 1.6 Enforcement Chapter 2 Referenced Publications 2.1 General 2.2 NFPA Publications 2.3 Other Publications Chapter 3 Definitions 3.1 General 3.2 NFPA Official Definitions 3.3 General Definitions Chapter 4 General 4.1 Mixed Occupancies 4.2 Hazard of Contents Chapter 5 New Construction 5.1 General 5.2 Means of Egress Components 5.3 Capacity of Means of Egress 5.4 Number of Means of Egress 5.5 Arrangement of Means of Egress 5.6 Measurement of Travel Distance to Exits 5.7 Discharge from Exits
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NFPA 1061	Public Safety Telecommunications Personnel Professional Qualifications	20/12/2006	Specifies the minimum job performance qualifications of persons in specific position within the communications field, such as public safety telecommunicator, communications training officer, communications supervisor, quality assurance/improvement personnel, communications training coordinator, communications center manager, and logistics section communications unit leader.	communications				
NFPA 110	EMERGENCY AND STANDBY POWER SYSTEMS	18/06/2012	Describes performance requirements for emergency and standby power systems providing an alternate source of electrical power to loads in buildings and facilities in the event that the primary power source fails.	Emergency Services	Energy			Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - Classification of Emergency Power Supply Systems (EPSSs) Chapter 5 - Emergency Power Supply (EPS): Energy Sources, Converters, and Accessories Chapter 6 - Transfer Switch Equipment Chapter 7 - Installation and Environmental Considerations Chapter 8 - Routine Maintenance and Operational Testing Annex A - Explanatory Material Annex B - Diagrams of Typical Systems Annex C - Informational References Index

NFPA 1141	FIRE PROTECTION INFRASTRUCTURE FOR LAND DEVELOPMENT IN WILDLAND, RURAL, AND SUBURBAN AREAS	20/6/2011	Includes the requirements for the fire protection infrastructure in wildland, rural, and suburban areas where there is an intended change of land use or intended land development.	Societal	Emergency Services			Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - General Requirements Chapter 5 - Means of Access Chapter 6 - Building Access and Separation Chapter 7 - Fire Protection Chapter 8 - Water Supply Chapter 9 - Fire Protection During Construction Chapter 10 - Community Safety and Emergency Preparedness Chapter 11 - Capacity of Fire Protection Services Annex A - Explanatory Material Annex B - Informational References Index
NFPA 1143	WILDLAND FIRE MANAGEMENT	17/06/2013	Gives minimum requirements to fire protection organizations on the management of wildland fire, including prevention, mitigation, preparation, and suppression.	Emergency Services				Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - Risk/Hazard Assessment and Mitigation Chapter 5 - Preparedness Chapter 6 - Incident Management Chapter 7 - Fire Suppression Chapter 8 - Post-Incident Activities Annex A - Explanatory Material Annex B - Air Operations for Forest, Brush, and Grass Fires Annex C - Informational References Index

NFPA 1144	REDUCING STRUCTURE IGNITION HAZARDS FROM WILDLAND FIRE	29/8/2012	Gibes a methodology for assessing wildland fire ignition hazards around existing structures, residential developments, and subdivisions and improved property or planned property improvement that will be located in a wildland/urban interface area, and provides minimum requirements for new construction to reduce the potential of structure ignition from wildland fires.	Emergency Services	Commercial Facilities	Government Facilities	Residential Facilities	Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - Assessing Wildland Fire Hazards in the Structure Ignition Zone Chapter 5 - Building Design, Location, and Construction Chapter 6 - Fuel Modification Area Annex A - Explanatory Material Annex B - Fuel Model Classifications Annex C - Type IV (2HH) Construction Annex D - Informational References Index
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NFPA 1221	Installation, Maintenance, and Use of Emergency Services Communications Systems	18/6/2012	Provides the installation, performance, operation, and maintenance of public emergency services communications systems and facilities.	Emergency Services	Communications			Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - Communications Centers Chapter 5 - Communication and Signal Wiring Chapter 6 - Emergency Response Facilities Chapter 7 - Operations Chapter 8 - Telephones Chapter 9 - Dispatching Systems Chapter 10 - Computer-Aided Dispatching (CAD) Systems Chapter 11 - Testing Chapter 12 - Records Chapter 13 - Data Security Chapter 14 - Public Alerting Systems Annex A - Explanatory Material Annex B - Frequency-Sharing Memorandum of Understanding Annex C - Planning Guidelines for Universal Emergency Number (9-1-1) Service Annex D - Computer-Aided Dispatching (CAD) Systems Annex E - Informational References Index
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NFPA 1221	Standard for the Installation, Maintenance, and Use of Emergency Services Communications Systems, 2013 Edition	18/6/2012	Provides the installation, performance, operation, and maintenance of public emergency services communications systems and facilities.	Emergency Services	Communications			Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - Communications Centers Chapter 5 - Communication and Signal Wiring Chapter 6 - Emergency Response Facilities Chapter 7 - Operations Chapter 8 - Telephones Chapter 9 - Dispatching Systems Chapter 10 - Computer-Aided Dispatching (CAD) Systems Chapter 11 - Testing Chapter 12 - Records Chapter 13 - Data Security Chapter 14 - Public Alerting Systems Annex A - Explanatory Material Annex B - Frequency-Sharing Memorandum of Understanding Annex C - Planning Guidelines for Universal Emergency Number (9-1-1) Service Annex D - Computer-Aided Dispatching (CAD) Systems Annex E - Informational References Index
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NFPA 13	Installation of Sprinkler Systems	19/2/2014	Gives a reasonable degree of protection for life and property from fire through standardization of design, installation, and testing requirements for sprinkler systems, including private fire service mains, based on sound engineering principles, test data, and field experience.	Water and Wastewater Systems	Commercial Facilities	Government Facilities	Residential Facilities	Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - General Requirements Chapter 5 - Classification of Occupancies and Commodities Chapter 6 - System Components and Hardware Chapter 7 - System Requirements Chapter 8 - Installation Requirements Chapter 9 - Hanging, Bracing, and Restraint of System Piping Chapter 10 - Underground Piping Chapter 11 - Design Approaches Chapter 12 - General Requirements for Storage Chapter 13 - Miscellaneous Storage Chapter 14 - Protection for Palletized, Solid-Piled, Bin Box, Shelf, or Back-to-Back Shelf Storage of Class I through Class IV Commodities Chapter 15 - Protection for Palletized, Solid-Piled,
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NFPA 1561	EMERGENCY SERVICES INCIDENT MANAGEMENT SYSTEM AND COMMAND SAFETY	2/12/2013	Includes the minimum requirements for an incident management system to be used by emergency services to manage all emergency incidents.	Emergency Services				Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - System Implementation Chapter 5 - Functions and Structure of Command Chapter 6 - Communications and Information Management Chapter 7 - Incident Management Team(s) Chapter 8 - Command Safety Annex A - Explanatory Material Annex B - Emergency Operations Centers Annex C - Area Command Annex D - Fire Service Information Annex E - Functional Assignments for High-Rise Building Incidents Annex F - Development of Subordinate Officers or Implementing a More Efficient Management System Annex G - Incident Management for the Fire Service on Type 5 or Type 4 Incidents Annex H - Structural Fire Fighting - Risk Assessment and Operational Expectations Annex I - Referenced Publications Index
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NFPA 16	INSTALLATION OF FOAM-WATER SPRINKLER AND FOAM-WATER SPRAY SYSTEMS	3/1/2011	Covers requirements for the design, installation, and maintenance of systems for reliable fire protection.	Water and Wastewater Systems	Commercial Facilities	Government Facilities	Residential Facilities	Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - General Requirements Chapter 5 - System Components Chapter 6 - Water Supplies Chapter 7 - System Design and Installation Chapter 8 - Acceptance Tests Chapter 9 - Inspection, Testing, and Maintenance Annex A - Explanatory Material Annex B - Foam Solution Concentration Determination Annex C - Informational References Index
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NFPA 1600	DISASTER/EMERGENCY MANAGEMENT AND BUSINESS CONTINUITY PROGRAMS	17/12/2012	Defines the fundamental criteria to develop, implement, assess, and maintain the program for prevention, mitigation, preparedness, response, continuity, and recovery.	Emergency Services	business continuity			Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - Program Management Chapter 5 - Planning Chapter 6 - Implementation Chapter 7 - Training and Education Chapter 8 - Exercises and Tests Chapter 9 - Program Maintenance and Improvement Annex A - Explanatory Material Annex B - Program Development Resources Annex C - Self-Assessment for Conformity with NFPA 1600, 2013 Edition Annex D - Plan-Do-Check-Act (PDCA) Cycle Annex E - Crosswalk Between NFPA 1600, DRII, and CSA Z1600 Annex F - NFPA 1600 2013 Edition as a Management System Standard Annex G - Maturity Models Annex H - APELL Annex I - Family Preparedness Annex J - Informational References Index
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NFPA 1620	Standard for Pre-Incident Planning	5/12/2009	Specifies criteria for developing pre-incident plans for use by personnel responding to emergencies.	Emergency Services				Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - Pre-Incident Planning Process Chapter 5 - Physical Elements and Site Considerations Chapter 6 - Occupant Considerations Chapter 7 - Protection Systems and Water Supplies Chapter 8 - Special Hazards Chapter 9 - Emergency Operations Chapter 10 - Pre-Incident Plan Testing and Maintenance Annex A - Explanatory Material Annex B - Case Histories Annex C - Special or Unique Characteristics of Occupancy Classifications Annex D - Sample Pre-Incident Plan Field Collection Card and Facility Data Record Annex E - Informational References Index
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NFPA 1620	Pre-Incident Planning	5/12/2009	Specifies criteria for developing pre-incident plans for use by personnel responding to emergencies.	Emergency Services				Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - Pre-Incident Planning Process Chapter 5 - Physical Elements and Site Considerations Chapter 6 - Occupant Considerations Chapter 7 - Protection Systems and Water Supplies Chapter 8 - Special Hazards Chapter 9 - Emergency Operations Chapter 10 - Pre-Incident Plan Testing and Maintenance Annex A - Explanatory Material Annex B - Case Histories Annex C - Special or Unique Characteristics of Occupancy Classifications Annex D - Sample Pre-Incident Plan Field Collection Card and Facility Data Record Annex E - Informational References Index
NFPA 1720	ORGANIZATION AND DEPLOYMENT OF FIRE SUPPRESSION OPERATIONS, EMERGENCY MEDICAL OPERATIONS, AND SPECIAL OPERATIONS TO THE PUBLIC BY VOLUNTEER FIRE DEPARTMENTS	18/7/2013	Covers minimum requirements relating to the organization and deployment of fire suppression operations, emergency medical operations, and special operations to the public by volunteer and combination fire departments.	Emergency Services	Healthcare and Public Health			Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - Organization, Operation, and Deployment Chapter 5 - Systems Annex A - Explanatory Material Annex B - Risk Management Model Annex C - Informational References Index

NFPA 18	WETTING AGENTS	25/8/2010	Provides qualification tests, methods of evaluation, and general rules for application of wetting agents and wetting agent solutions as related to fire control and extinguishment.	Emergency Services	Chemical			Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - Uses and Limitations Chapter 5 - Requirements and Test Methods for Wetting Agent Concentrates and Wetting Agent Solutions Chapter 6 - Class A Fire Extinguishment Tests Chapter 7 - Class B Fire Extinguishment Tests Chapter 8 - Wetting Agent Supply Chapter 9 - Packaging and Labeling Chapter 10 - Inspection, Testing, and Maintenance of Fixed Systems Annex A - Explanatory Material Annex B - Informational References Index Referenced Standards ASTM D 1293
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NFPA 18A	WATER ADDITIVES FOR FIRE CONTROL AND VAPOR MITIGATION	3/1/2011	Offers guidance for professionals responsible for purchasing, testing, listing, and using water additives for the purpose of fire control and flammable vapor mitigation.	Water and Wastewater Systems	Emergency Services			Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - Uses and Limitations Chapter 5 - Properties and General Test Protocols for Evaluation of Water Additive Concentrate and Solution Chapter 6 - Class A Fire Test Methods Chapter 7 - Class B Fire Test Methods Chapter 8 - Packaging and Labeling Chapter 9 - Supply Chapter 10 - Inspection, Testing, and Maintenance of Fixed Systems Annex A - Explanatory Material Annex B - Residual Fire Retardancy Annex C - ICAL Radiant Panel Test for Exposure Protection Annex D - Three-Dimensional Fire Test Apparatus Annex E - Informational References Index
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NFPA 1901	AUTOMOTIVE FIRE APPARATUS	18/07/2008	Specifies the requirements for new automotive fire apparatus and trailers designed to be used under emergency conditions to transport personnel and equipment and to support the suppression of fires and mitigation of other hazardous situations.	Transportation Systems	Emergency Services			Chapter 1 Administration 1.1 Scope 1.2 Purpose 1.3 Application 1.4 Retroactivity 1.5 Equivalency 1.6 Units and Formulas Chapter 2 Referenced Publications 2.1 General 2.2 NFPA Publications 2.3 Other Publications 2.4 References for Extracts in Mandatory Sections Chapter 3 Definitions 3.1 General 3.2 NFPA Official Definitions 3.3 General Definitions Chapter 4 General Requirements 4.1 General 4.2 Requirements by Apparatus Type 4.3 Responsibility of the Purchaser 4.4 Responsibility of the Contractor 4.5 Fire Apparatus Components 4.6 Legal Requirements 4.7 Third-Party Certification of Test Results 4.8 Manufacturer Certification of Test Results 4.9 Personnel Protection 4.10 Controls and Instructions 4.11 Vehicle Data Recorder 4.12 Component Protection 4.13 Vehicle Stability 4.14 Fire Apparatus Performance 4.15 Roadability 4.16 Serviceability 4.17 Road Tests 4.18
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NFPA 1906	WILDLAND FIRE APPARATUS	28/8/2012	Specifies the minimum requirements for the design, performance, and testing of new automotive fire apparatus that are designed primarily to support wildland fire suppression operations.	Transportation Systems	Emergency Services			Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - General Requirements Chapter 5 - Wildland Fire Apparatus Chapter 6 - Reserved Chapter 7 - Wildland Mobile Water Supply Fire Apparatus Chapter 8 - Reserved Chapter 9 - Reserved Chapter 10 - Reserved Chapter 11 - Reserved Chapter 12 - Chassis and Vehicle Components Chapter 13 - Low-Voltage Electrical Systems and Warning Devices Chapter 14 - Driving and Crew Areas Chapter 15 - Body, Compartments, and Equipment Mounting Chapter 16 - Pumps for Wildland Fire Fighting and Associated Equipment Chapter 17 - Reserved Chapter 18 - Water Tanks Chapter 19 - Reserved
NFPA 1961	Fire Hose	18/6/2012	Describes the design and construction requirements for new fire hose, the testing required to verify the design and construction, and the inspection and testing required of all new fire hose.	Emergency Services				Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - Design Requirements Chapter 5 - Construction Requirements Chapter 6 - Test Methods for Manufacturers' Hose Certification Chapter 7 - Sampling, Inspection, and Tests Annex A - Explanatory Material Annex B - Informational References Index

NFPA 20	Installation of Stationary Pumps for Fire Protection, 2013 Edition	29/8/2012	Covers with the selection and installation of pumps supplying liquid for private fire protection.	Emergency Services	Water and Wastewater Systems			Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - General Requirements Chapter 5 - Fire Pumps for High-Rise Buildings Chapter 6 - Centrifugal Pumps Chapter 7 - Vertical Shaft Turbine-Type Pumps Chapter 8 - Positive Displacement Pumps Chapter 9 - Electric Drive for Pumps Chapter 10 - Electric-Drive Controllers and Accessories Chapter 11 - Diesel Engine Drive Chapter 12 - Engine Drive Controllers Chapter 13 - Steam Turbine Drive Chapter 14 - Acceptance Testing, Performance, and Maintenance Annex A - Explanatory Material Annex B - Possible Causes of Pump Troubles Annex C - Informational References Annex D - Material Extracted by NFPA 70, Article 695
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NFPA 203	ROOF COVERINGS AND ROOF DECK CONSTRUCTIONS	15/10/2000	Provides general information about roof coverings and their fire characteristics, and recommends safety specifications.	Commercial Facilities	Government Facilities	Residential Facilities	Chapter 1 Introduction 1.1 General Chapter 2 General Types of Roof Coverings 2.1 Composition Built-up 2.2 Prepared Coverings 2.3 Wood Shingles and Shakes 2.4 Elastomer Coverings Chapter 3 Fire Performance Classification 3.1 Exterior Exposure Chapter 4 Fire Classification - Interior Exposure 4.1 Insulated Metal Deck 4.2 Factory Mutual Classification 4.3 Underwriters Laboratories Inc. Classification Chapter 5 Selection of Roof Coverings from a Fire Standpoint 5.1 General 5.2 Built-up Coverings 5.3 Prepared Roofs 5.4 Wood Shingles and Shakes 5.5 Elastomeric Covering Chapter 6 Referenced Publications Index
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NFPA 204	SMOKE AND HEAT VENTING	31/8/2011	Pertains to the design of venting systems for the emergency venting of products of combustion from fires in buildings.	Emergency Services	Commercial Facilities	Government Facilities	Residential Facilities	Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - Fundamentals Chapter 5 - Vents Chapter 6 - Air Inlets Chapter 7 - Draft Curtains Chapter 8 - The Design Fire Chapter 9 - Sizing Vents Chapter 10 - Mechanical Smoke Exhaust Systems Chapter 11 - Venting in Sprinklered Buildings Chapter 12 - Inspection and Maintenance Chapter 13 - Design Documentation Annex A - Explanatory Material Annex B - The Theoretical Basis of LAVENT Annex C - User Guide for the LAVENT Computer Code Annex D - Sample Problem Using Engineering Equations (Hand Calculations) and LAVENT Annex E - Predicting the Rate of Heat Release of Fires
NFPA 214	WATER-COOLING TOWERS	28/1/2011	Applicable to fire protection for field erected and factory-assembled water-cooling towers of combustible construction or those in which the fill is of combustible material.	Water and Wastewater Systems	Commercial Facilities	Government Facilities		Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - Location of Water-Cooling Towers Chapter 5 - Fire Protection Chapter 6 - Electrical Equipment and Wiring Chapter 7 - Internal Combustion Engine-Driven Fans Chapter 8 - Maintenance Annex A - Explanatory Material Annex B - Water-Cooling Tower Types Annex C - Informational References Index

NFPA 22	Water Tanks for Private Fire Protection, 2013 Edition	17/12/2012	Gives the minimum requirements for the design, construction, installation, and maintenance of tanks and accessory equipment that supply water for private fire protection, including the following: (1) Gravity tanks, suction tanks, pressure tanks, and embankment-supported coated fabric suction tanks (2) Towers (3) Foundations (4) Pipe connections and fittings (5) Valve enclosures (6) Tank filling (7) Protection against freezing	Water and Wastewater Systems	Commercial Facilities	Government Facilities		Chapter 1 - Introduction Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - General Information Chapter 5 - Welded-Steel Gravity Tanks and Suction Tanks Chapter 6 - Factory-Coated, Bolted Steel Tanks Chapter 7 - Pressure Tanks Chapter 8 - Wood Gravity Tanks and Suction Tanks Chapter 9 - Embankment-Supported Coated Fabric Suction Tanks Chapter 10 - Concrete Gravity Tanks and Suction Tanks Chapter 11 - Fiberglass-Reinforced Plastic Tanks Chapter 12 - Tank and Tower Foundations in the Ground Chapter 13 - Steel Tank Towers Chapter 14 - Pipe Connections and Fittings Chapter 15 - Valve Enclosures and
NFPA 221	HIGH CHALLENGE FIRE WALLS, FIRE WALLS, AND FIRE BARRIER WALLS	29/4/2014	Defines requirements for the design and construction of high challenge fire walls, fire walls, and fire barrier walls including protection of openings and penetrations. And explains minimum requirements for the design and construction of high challenge fire walls, fire walls, and fire barrier walls for use in providing safety to life and protection of property from fire.					Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - General Requirements Chapter 5 - High Challenge Fire Walls Chapter 6 - Fire Walls Chapter 7 - Fire Barrier Walls Annex A - Explanatory Material Annex B - Informational References Index

NFPA 230	FIRE PROTECTION OF STORAGE	6/2/2003	Pertains to the indoor and outdoor storage of materials representing the broad range of combustibles, including plastics, forest products, rubber tires, scrap tires, baled cotton, and roll paper.	Commercial Facilities	Government Facilities	Residential Facilities	<ul style="list-style-type: none"> Chapter 1 Administration 1.1 Scope 1.2 Purpose 1.3 Retroactivity 1.4 Equivalency 1.5 Units Chapter 2 Referenced Publications 2.1 General 2.2 NFPA Publications 2.3 Other Publication Chapter 3 Definitions 3.1 General 3.2 NFPA Official Definitions 3.3 General Definitions Chapter 4 General 4.1 Classification of Commodities 4.2 Usage Changes Chapter 5 General Requirements 5.1 Building Construction 5.2 Storage Arrangement 5.3 Fire Protection - General 5.4 Building Equipment, Maintenance, and Operations Chapter 6 Protection of Palletized, Solid Pile, Bin Box, and On-Shelf Storage 6.1 Application
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NFPA 24	Installation of Private Fire Service Mains and Their Appurtenances, 2013 Edition	18/6/2012	Describes the minimum requirements for the installation of private fire service mains and their appurtenances.	Commercial Facilities	Government Facilities	Residential Facilities		Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - General Requirements Chapter 5 - Water Supplies Chapter 6 - Valves Chapter 7 - Hydrants Chapter 8 - Hose Houses and Equipment Chapter 9 - Master Streams Chapter 10 - Underground Piping Chapter 11 - Hydraulic Calculations Chapter 12 - Aboveground Pipe and Fittings Chapter 13 - Sizes of Aboveground and Buried Pipe Chapter 14 - System Inspection, Testing, and Maintenance Annex A - Explanatory Material Annex B - Valve Supervision Issues Annex C - Recommended Practice for Fire Flow Testing Annex D - Recommended Practice for Marking of Hydrants Annex E - Informational References Index
NFPA 25	INSPECTION, TESTING, AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS	25/8/2010	Provides comprehensive guidance on maintaining suppression systems for optimum performance.	Water and Wastewater Systems	Commercial Facilities	Government Facilities	Residential Facilities	

NFPA 251	FIRE RESISTANCE OF BUILDING CONSTRUCTION AND MATERIALS	18/8/2005	Describes methods of fire tests for the fire-resistive properties of building members and assemblies.	Commercial Facilities	Government Facilities	Residential Facilities	<ul style="list-style-type: none"> Chapter 1 Administration 1.1 Scope 1.2 Purpose 1.3 Application 1.4 Units Chapter 2 Referenced Publications 2.1 General 2.2 NFPA Publications. (Reserved) 2.3 Other Publications 2.4 References for Extracts in Mandatory Sections. (Reserved) Chapter 3 Definitions 3.1 General 3.2 NFPA Official Definitions 3.3 General Definitions Chapter 4 Control of Fire Tests 4.1 Temperature-Time Curve 4.2 Furnace Temperatures 4.3 Temperatures of Unexposed Surfaces of Floors, Roofs, Walls, and Partitions 4.4 Furnace Pressure Chapter 5 Test Specimen 5.1 Specimen 5.2 Protection and Conditioning of Test Specimen Chapter 6 Conduct of Fire Tests
NFPA 291	Fire Flow Testing and Marking of Hydrants	18/6/2012	Describes fire flow testing and marking of hydrants.	Water and Wastewater Systems	Emergency Services		<ul style="list-style-type: none"> Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - Flow Testing Chapter 5 - Marking of Hydrants Annex A - Explanatory Material Annex B - Informational References (Reserved) Index

NFPA 295	Wildfire Control	5/8/1998	Specifies procedures for the control of wildfires, including department management, fireground organization, equipment and apparatus.	Emergency Services				Chapter 1 Introduction 1.1 Scope 1.2 Purpose 1.3 Definitions Chapter 2 General policy 2.1 Wildfire control policies Chapter 3 Organization 3.1 Organizational structure Chapter 4 Command 4.1 Incident command 4.2 Unified command 4.3 Strategic Considerations 4.4 Command Staff Chapter 5 Operations 5.1 Operations 5.2 Resource evaluation 5.3 Size-up 5.4 Fire attack and control 5.5 Mop-up and demobilization 5.6 Post-incident review Chapter 6 Planning 6.1 General 6.2 Pre-incident planning 6.3 Incident planning 6.4 Post-incident activities Chapter 7 Logistics 7.1 Logistics function
NFPA 299	Protection of Life and Property from Wildfire	1/9/1997		Emergency Services	Healthcare and Public Health			

NFPA 3	Recommended Practice on Commissioning and Integrated Testing of Fire Protection and Life Safety Systems	31/8/2011	Gives the recommended procedures, methods, and documentation for commissioning and integrated testing of active and passive fire protection and life safety systems and their interconnections with other building systems.	Commercial Facilities	Government Facilities	Residential Facilities	Emergency Services	Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - Qualifications of Commissioning Personnel Chapter 5 - Commissioning Chapter 6 - Integrated Systems Commissioning Chapter 7 - Integrated System Testing Chapter 8 - Re-commissioning (Re-Cx) and Retro-commissioning (RCx) of Fire Protection and Life Safety Systems Chapter 9 - Commissioning Documentation and Forms Annex A - Explanatory Material Annex B - Sample Basis of Design Narrative Report Annex C - Sample Commissioning Documentation Annex D - Referenced Publications Index
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NFPA 30	Flammable and Combustible Liquids Code	14/11/2011	Gives fundamental safeguards for the storage, handling, and use of flammable and combustible liquids.	Chemical	Commercial Facilities	Government Facilities	Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - Definition and Classification of Liquids Chapter 5 - General Requirements Chapter 6 - Fire and Explosion Prevention and Risk Control Chapter 7 - Electrical Systems Chapter 9 - Storage of Liquids in Containers - General Requirements Chapter 10 - Storage of Liquids in Containers - Mercantile Occupancies Chapter 11 - Storage of Liquids in Containers - Industrial Occupancies Chapter 12 - Storage of Liquids in Containers - Storage Occupancies Chapter 13 - Storage of Liquids in Containers - Detached, Unprotected Buildings Chapter 14 - Hazardous Materials
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NFPA 301	Code for Safety to Life from Fire on Merchant Vessels	18/6/2012	Defines construction, arrangement, protection, and space utilization factors that are necessary to minimize danger to life from fire, smoke, fumes, or panic.	Emergency Services	Healthcare and Public Health			Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - Fundamental Requirements Chapter 5 - Performance-Based Option Chapter 6 - Classification of Occupancy and Hazard of Contents Chapter 7 - Means of Egress Chapter 8 - Features of Fire Protection Chapter 9 - Vessel Services and Fire Detection and Protection Equipment Chapter 10 - Accommodation Spaces Chapter 11 - Medical, Health Care, and Child Care Spaces Chapter 12 - Service Spaces Chapter 13 - Electrical and Control Spaces Chapter 14 - Engineering and Machinery Spaces Chapter 15 - Storage Spaces Chapter 16 - Cargo Spaces and Fuel
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NFPA 302	PLEASURE AND COMMERCIAL MOTOR CRAFT	15/06/2009	Describes minimum requirements for the prevention of fire and explosion, for mitigation of carbon monoxide hazards, and for life safety in case of fire on boats.	Transportation Systems	Healthcare and Public Health			Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - Hull Chapter 5 - Engines Chapter 6 - Engine Exhaust Systems Chapter 7 - Fuel Systems Chapter 8 - Cooking, Heating, and Auxiliary Appliances Chapter 9 - Electrical Systems Under 50 Volts Chapter 10 - Alternating Current (ac) Electrical Systems on Boats Chapter 11 - Lightning Protection Chapter 12 - Fire Protection Equipment Chapter 13 - Carbon Monoxide Detection Annex A - Explanatory Material Annex B - Portable Fire Extinguishers and Fixed Systems Annex C - Operation and Maintenance Annex D - Fire Warning Equipment Annex E - Extinguisher Inspection and Maintenance Information from NFPA Standards Annex F - Informational References Index
NFPA 303	MARINAS AND BOATYARDS	25/8/2010	Applicable to the construction and operation of marinas, boatyards, yacht clubs, boat condominiums, docking facilities associated with residential condominiums, multiple-docking facilities at multiple-family residences, and all associated piers, docks, and floats.	residential facilities	Transportation Systems			Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - Management Chapter 5 - Electrical Wiring and Equipment Chapter 6 - Fire Protection Chapter 7 - Berthing and Storage Chapter 8 - Operational Hazards Annex A - Explanatory Material Annex B - Informational References Index

NFPA 307	Construction and Fire Protection of Marine Terminals, Piers, and Wharves	21/6/2010	Presents general principles for the construction and fire protection of marine terminals, piers, and wharves.	Transportation Systems	Commercial Facilities	Government Facilities		Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - Piers and Wharves Chapter 5 - Terminal Buildings Chapter 6 - Terminal Yards Chapter 7 - Water Supply for Fire Protection Chapter 8 - Hazardous Materials Storage Chapter 9 - General Terminal Operations Chapter 10 - Miscellaneous Installations and Operations Annex A - Explanatory Material Annex B - Substructure Nomenclature Annex C - Additional Fire Protection Facilities Annex D - Regulations and References Annex E - Informational References Index Referenced Standards ASTM E 84
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NFPA 31	INSTALLATION OF OIL-BURNING EQUIPMENT	3/1/2011	Provides the minimum requirements for the safe installation of stationary liquid fuel-burning appliances, including but not limited to industrial-, commercial-, and residential-type steam, hot water, or warm air heating appliances; domestic-type range burners; space heaters; and portable liquid fuel-burning equipment.	Energy	Commercial Facilities	Government Facilities	Residential Facilities	Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - Basic Installation and Operation Requirements Chapter 5 - Air for Combustion and Ventilation Chapter 6 - Venting of Combustion (Flue) Gases Chapter 7 - Tanks for Liquid Fuels Chapter 8 - Heating Fuel Piping Systems and Components Chapter 9 - Oil Distribution Systems Chapter 10 - Installation of Oil Burners and Oil-Burning Appliances Chapter 11 - Installation and Operation of Oil-Burning Stoves, Kerosene-Burning Room Heaters, and Kerosene-Burning Portable Heaters Chapter 12 - Used Oil-Burning Appliances Chapter 13 - Oil-and-Gas-Burning Appliances
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NFPA 385

TANK VEHICLES FOR
FLAMMABLE AND
COMBUSTIBLE LIQUIDS

2/1/2012

Presents design and
construction requirements
for tank vehicles for avoiding
fires and explosions.

Transportation Systems

Chapter 1 - Administration
Chapter 2 - Referenced Publications
Chapter 3 - Definitions
Chapter 4 - Classification of
Flammable and Combustible Liquids
Chapter 5 - Tank Vehicle Design
Chapter 6 - Asphalt Tank Vehicles
Chapter 7 - Marking on Tank
Vehicles
Chapter 8 - Auxiliary Equipment
Chapter 9 - Operation of Tank
Vehicles
Annex A - Explanatory Material
Annex B - Precautions Against
Ignition by Static
Electricity
Annex C - Informational References
Index

NFPA 395

STORAGE OF FLAMMABLE
AND COMBUSTIBLE LIQUIDS
ON FARMS AND ISOLATED
SITES

1993

Specifies standards for
storage of hazardous
materials in rural areas,
where isolation from other
structures makes it
unnecessary to adhere to the
more rigid requirements of
NFPA 30.

Chemical

Chapter 1 General
1.1 Scope
1.2 Purpose
1.3 Equivalency
1.4 Retroactivity
1.5 Definitions
Chapter 2 Specific Requirements
2.1 Types of Approved Storage
2.2 Individual Containers Not
Exceeding 60 Gallons
Capacity
2.3 Tanks of 60 to 1,100 Gallons
Capacity
2.4 Marking of Tanks and Containers
2.5 Fire Prevention and Control
Chapter 3 Referenced Publications
Appendix A Explanatory Material
Appendix B Referenced Publications
Index

NFPA 402

Aircraft Rescue and Fire
Fighting Operations

18/6/2012

Presents information relative
to aircraft rescue and fire
fighting operations and
procedures for airport and
structural fire departments.

Transportation Systems

Emergency Services

Chapter 1 Administration
Chapter 2 Referenced Publications
Chapter 3 Definitions
Chapter 4 Pre-Incident Planning for
Aircraft Emergencies
Chapter 5 Flight Deck Crew and
ARFF Personnel Responsibilities
Chapter 6 Emergency Response
Chapter 7 Factors Common to
Airport Emergencies
Chapter 8 Aircraft Construction and
Materials
Chapter 9 Evacuation and Rescue
Chapter 10 Fire Control and
Extinguishment
Chapter 11 Interior Aircraft Fires
Chapter 12 Miscellaneous Aircraft
Incidents
Chapter 13 Post-Aircraft Accident
Procedures
Chapter 14 Structural Fire
Department Operations at ARFF
Incidents
Annex A - Explanatory Material
Annex B - Air Transport of
Dangerous Goods (Hazardous
Materials and

NFPA 403	Aircraft Rescue and Fire-Fighting Services at Airports	17/6/2013	Describes the minimum requirements for aircraft rescue and fire-fighting (ARFF) services at airports.	Transportation Systems	Emergency Services			<p>Chapter 1 - Administration</p> <p>Chapter 2 - Referenced Publications</p> <p>Chapter 3 - Definitions</p> <p>Chapter 4 - Organization of Aircraft Rescue and Fire-Fighting (ARFF) Services</p> <p>Chapter 5 - Extinguishing Agents</p> <p>Chapter 6 - Aircraft Rescue and Fire-Fighting (ARFF) Vehicles</p> <p>Chapter 7 - Airport Emergency Communications</p> <p>Chapter 8 - ARFF Personnel, Protective Clothing, and Equipment</p> <p>Chapter 9 - Airport Fire Station Location and Response Capability</p> <p>Annex A - Explanatory Material</p> <p>Annex B - Basis of Agent Quantities</p> <p>Annex C - Operational Communications System</p> <p>Annex D - Task and Resource Analysis Model</p> <p>Annex E - Training Program</p> <p>Annex F - Informational References</p> <p>Index</p>
NFPA 408	AIRCRAFT HAND PORTABLE FIRE EXTINGUISHERS	5/12/2009	Defines requirements for the type, capacity, rating, number, location, installation, and maintenance of aircraft hand portable fire extinguishers to be provided for the use of flight crew members or other occupants of an aircraft for the control of incipient fires in the areas of aircraft that are accessible during flight.	Transportation Systems	Emergency Services			<p>Chapter 1 - Administration</p> <p>Chapter 2 - Referenced Publications</p> <p>Chapter 3 - Definitions</p> <p>Chapter 4 - Types and Capacities</p> <p>Chapter 5 - Distribution of Extinguishers</p> <p>Chapter 6 - Inspection, Maintenance, and Hydrostatic Testing</p> <p>Chapter 7 - Flight Crew Training</p> <p>Annex A - Explanatory Material</p> <p>Annex B - Informational References</p> <p>Index</p>

NFPA 409	AIRCRAFT HANGARS	24/9/2010	Provides the minimum requirements for the proper construction of aircraft hangars and protection of aircraft hangars from fire.	Transportation Systems	Emergency Services			Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - Aircraft Hangar Groups Chapter 5 - Construction of Group I and Group II Aircraft Hangars Chapter 6 - Protection of Group I Aircraft Hangars Chapter 7 - Protection of Group II Aircraft Hangars Chapter 8 - Group III Aircraft Hangars Chapter 9 - Group IV Aircraft Hangars Chapter 10 - Paint Hangars Chapter 11 - Periodic Inspection and Testing Chapter 12 - Unfueled Aircraft Hangars Annex A - Explanatory Material Annex B - Building Construction Types Annex C - Informational References Index
NFPA 412	Evaluating Aircraft Rescue and Fire-Fighting Foam Equipment	17/6/2013	Sets test procedures for evaluating the foam fire-fighting equipment installed on aircraft rescue and fire-fighting vehicles designed in accordance with NFPA 414.	Transportation Systems	Emergency Services			Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - Aircraft Rescue and Fire-Fighting Vehicle Foam Production Performance Testing Chapter 5 - Performance Criteria Chapter 6 - Test Methods and Calculations Annex A - Explanatory Material Annex B - Foam Extinguishing System Capability Annex C - Informational References Index

NFPA 414	AIRCRAFT RESCUE AND FIRE-FIGHTING VEHICLES	20/6/2011	Gives the minimum design, performance, and acceptance criteria for aircraft rescue and firefighting (ARFF) vehicles intended to transport personnel and equipment to the scene of an aircraft emergency for the purpose of rescuing occupants and conducting rescue and fire-fighting operations.	Transportation Systems	Emergency Services			Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - Aircraft Rescue and Fire-Fighting Vehicles Chapter 5 - Aircraft Interior Access Vehicle Chapter 6 - Acceptance Criteria Annex A - Explanatory Material Annex B - Line Voltage Electrical Systems Annex C - Aircraft Rescue and Fire-Fighting Vehicle Questionnaire Annex D - Driver's Enhanced Vision System Annex E - Informational References Index
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NFPA 418	HELIPORTS	3/1/2011	Describes minimum fire safety requirements for operation at heliports for the protection of persons, aircraft, and other property.	Transportation Systems	Emergency Services	Commercial Facilities	Government Facilities	Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - General Requirements - Land-Based Facilities Chapter 5 - Rooftop Landing Facilities Chapter 6 - Rooftop Hangars Chapter 7 - Water Supply Chapter 8 - Offshore Heliports Chapter 9 - Portable Fire Extinguishers Chapter 10 - Emergency Operations Annex A - Explanatory Material Annex B - Heliport Emergency Planning and Training for Safety Personnel Annex C - Establishing Extinguishing Agent Quantities and Discharge Rates Annex D - Informational References Index
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NFPA 45	FIRE PROTECTION FOR LABORATORIES USING CHEMICALS	25/8/2010	Applicable to laboratory buildings, laboratory units, and laboratory work areas whether located above or below grade in which chemicals, as defined, are handled or stored.	Chemical	Commercial Facilities	Government Facilities	Emergency Services	Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - Laboratory Unit Hazard Classification Chapter 5 - Laboratory Unit Design and Construction Chapter 6 - Fire Protection Chapter 7 - Explosion Hazard Protection Chapter 8 - Laboratory Ventilating Systems and Hood Requirements Chapter 9 - Chemical Storage, Handling, and Waste Disposal Chapter 10 - Flammable and Combustible Liquids Chapter 11 - Compressed and Liquefied Gases Chapter 12 - Laboratory Operations and Apparatus Chapter 13 - Hazard Identification Annex A - Explanatory Material Annex B - Supplementary Definitions Annex C - Supplementary Information on Explosion Hazards and Protection
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<p>NFPA 471</p>	<p>Responding to Hazardous Materials Incidents, 2002 Edition</p>	<p>31/1/2002</p>	<p>Applicable to all organizations that have responsibilities when responding to hazardous materials incidents and recommends standard operating guidelines for responding to such incidents. Planning procedures, policies, and application of procedures for incident levels, personal protective equipment, decontamination, safety, and communications are specifically covered in this recommended practice.</p>	<p>Emergency Services</p>				<p>Chapter 1 Administration 1.1 Scope 1.2 Purpose 1.3 Application Chapter 2 Referenced Publications 2.1 General 2.2 NFPA Publications 2.3 Other Publications Chapter 3 Definitions 3.1 General 3.2 NFPA Official Definitions 3.3 General Definitions Chapter 4 Incident Response Planning 4.1 Developing an Incident Response Plan 4.2 Review and Training Chapter 5 Response Levels 5.1 Planning Guide 5.2 Potential Applications Chapter 6 Site Safety 6.1 Emergency Incident Operations 6.2 Ignition Sources 6.3 Control Zones 6.4 Communications 6.5 Monitoring Equipment Chapter 7 Personal Protective</p>
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NFPA 501A	Fire Safety Criteria for Manufactured Home Installations, Sites, and Communities	2013	Describes the installation of manufactured homes and home sites, including accessory buildings, structures, and communities.	residential facilities	Commercial Facilities	Government Facilities	Emergency Services	Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - Fuel Supply Chapter 5 - Electrical System Chapter 6 - Life Safety and Fire Safety Chapter 7 - Emergency Considerations Annex A - Explanatory Material Annex B - Manufactured Home Community Action for Fire Safety Annex C - Responsibilities of the Manufactured Home Resident Annex D - Informational References Index
NFPA 502	ROAD TUNNELS, BRIDGES, AND OTHER LIMITED ACCESS HIGHWAYS	2014	Gives designers, AHJs, and state and federal regulators with guidelines for the construction, operation, maintenance, and fire protection of these venues to mitigate hazards, maintain structural integrity, and protect lives.	Emergency Services	Transportation Systems			

NFPA 505	Fire Safety Standard for Powered Industrial Trucks Including Type Designations, Areas of Use, Conversions, Maintenance, and Operations	17/12/2012	Pertains to fork trucks, tractors, platform lift trucks, motorized hand trucks, and other specialized industrial trucks powered by electric motors or internal combustion engines.	Emergency Services	Transportation Systems			Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - Hazardous (Classified) Locations Chapter 5 - Other Locations Chapter 6 - Dual-Fuel Trucks Chapter 7 - Conversion of Trucks Chapter 8 - Maintenance of Industrial Trucks Chapter 9 - Fuel Recharging, Marking, and Operation of Industrial Trucks Chapter 10 - Portable Fire Extinguishers Annex A - Explanatory Material Annex B - Definitions for Locations for Electrical Installations Annex C - Informational References Index
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NFPA 513-1998	Motor Freight Terminals	5/8/1998	Applicable to the prevention of loss of life and property damage from fires in motor freight terminals.	Transportation Systems	Commercial Facilities	Government Facilities	Healthcare and Public Health	<p>Chapter 1 General information</p> <p>1.1 Application and scope</p> <p>1.2 Definitions</p> <p>Chapter 2 Construction and building arrangement</p> <p>2.1 Freight transfer and administration buildings</p> <p>2.2 Vehicle maintenance and service buildings</p> <p>2.3 Employee facilities</p> <p>Chapter 3 Building services</p> <p>3.1 Electricity</p> <p>3.2 Heating</p> <p>3.3 Ventilation</p> <p>Chapter 4 Freight-handling operation</p> <p>4.1 Freight transfer</p> <p>4.2 Mechanical handling equipment</p> <p>4.3 Motor vehicles at docks</p> <p>Chapter 5 Vehicle maintenance and service</p> <p>5.1 General</p> <p>5.2 Spray painting and undercoating</p> <p>5.3 Inspection and repair pits</p> <p>5.4 Repair of fuel tanks</p> <p>5.5 Cleaning of parts</p> <p>5.6 Welding and open flame</p>
NFPA 51B	Fire Prevention During Welding, Cutting, and Other Hot Work	17/6/2013	Covers minimum requirements for all persons who manage, request, authorize, perform, or supervise hot work.	Commercial Facilities	Government Facilities			<p>Chapter 1 - Administration</p> <p>Chapter 2 - Referenced Publications</p> <p>Chapter 3 - Definitions</p> <p>Chapter 4 - Responsibility for Hot Work</p> <p>Chapter 5 - Fire Prevention Precautions</p> <p>Chapter 6 - Sole Proprietors and Individual Operators</p> <p>Chapter 7 - Public Exhibitions and Demonstrations</p> <p>Annex A - Explanatory Material</p> <p>Annex B - Significant Hot Work Incidents</p> <p>Annex C - Informational References</p> <p>Index</p>

NFPA 54	NATIONAL FUEL GAS CODE	31/8/2011	Covers the installation of fuel gas piping systems, appliances, equipment, and related accessories.	Energy	Transportation Systems			<p>Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - General Chapter 5 - Gas Piping System Design, Materials, and Components Chapter 6 - Pipe Sizing Chapter 7 - Gas Piping Installation Chapter 8 - Inspection, Testing, and Purging Chapter 9 - Appliance, Equipment, and Accessory Installation Chapter 10 - Installation of Specific Appliances Chapter 11 - Procedures to Be Followed to Place Appliance in Operation Chapter 12 - Venting of Appliances Chapter 13 - Sizing of Category I Venting Systems Annex A - Explanatory Material Annex B - Sizing and Capacities of Gas Piping Annex C - Suggested Method of Checking for Leakage</p>
NFPA 550	Fire Safety Concepts Tree	2/1/2012	Explains the structure, application and limitations of the Fire Safety Concepts Tree.	Emergency Services				<p>Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - Structure of the Fire Safety Concepts Tree Chapter 5 - Applications Chapter 6 - Limitations Chapter 7 - Use of the Tree Chapter 8 - Reserved Chapter 9 - Administrative Action Annex A - Explanatory Material Annex B - Informational References (Reserved) Index</p>

NFPA 551	Guide for the Evaluation of Fire Risk Assessments	17/12/2012	Gives assistance, primarily to authorities having jurisdiction (AHJs), in evaluating the appropriateness and execution of a fire risk assessment (FRA) for a given fire safety problem.	Emergency Services				Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - Evaluating a Fire Risk Assessment (FRA) Chapter 5 - Selection and Evaluation: FRA Methods Chapter 6 - Information Requirements Chapter 7 - Documentation (Deliverables) Chapter 8 - Review Annex A - Explanatory Material Annex B - Informational References Index
NFPA 556	GUIDE ON METHODS FOR EVALUATING FIRE HAZARD TO OCCUPANTS OF PASSENGER ROAD VEHICLES	21/06/2010	Provides: Guidance for a hazard based assessment for the development of hazardous conditions from fire involving passenger road vehicles; Statistical information on vehicle fires; Background information on passenger road vehicle fire performance; Performance-based approaches to evaluating passenger road vehicle fire hazards; and A substantial chapter dedicated to fire scenarios and mitigation strategies.	Transportation Systems	Emergency Services			Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - Types of Vehicles Chapter 5 - General Description of Passenger Road Vehicle Fires and Background Information Chapter 6 - Approach to Evaluating Passenger Road Vehicle Fire Hazard Chapter 7 - Objectives and Design Criteria Chapter 8 - Selecting Candidate Design Chapter 9 - Typical Fire Scenarios to Be Investigated Chapter 10 - Evaluation Methods and Tools Chapter 11 - Individual Fire Scenarios Chapter 12 - Further Guidance Annex A - Explanatory Material Annex B - Fire Retardants Annex C - Informational References Index

NFPA 59	UTILITY LP-GAS PLANT CODE	20/6/2011	Pertains to the design, construction, location, installation, operation, and maintenance of refrigerated and nonrefrigerated utility gas plants.	Energy	Commercial Facilities	Government Facilities	Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - General Requirements Chapter 5 - Nonrefrigerated Containers Chapter 6 - Refrigerated Containers Chapter 7 - Piping, Valves, and Equipment Chapter 8 - Buildings or Structures Housing LP-Gas Distribution Facilities Chapter 9 - Vaporizers, Heat Exchangers, and Gas-Air Mixers Chapter 10 - Relief Devices Chapter 11 - Operations Chapter 12 - Maintenance Chapter 13 - Fire Protection, Safety, and Security Annex A - Explanatory Material Annex B - Method of Calculating Maximum Liquid Volume That Can Be Placed in a Container at Any Liquid Temperature Annex C - Method of Calculating Maximum Volume of Liquefied Petroleum Gas That Can Be Placed in
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NFPA 59A	PRODUCTION, STORAGE, AND HANDLING OF LIQUEFIED NATURAL GAS (LNG)	29/8/2012	Gives minimum fire protection, safety, and related requirements for the location, design, construction, security, operation, and maintenance of LNG plants.	Energy	Commercial Facilities	Government Facilities		Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - General Requirements Chapter 5 - Plant Siting and Layout Chapter 6 - Process Equipment Chapter 7 - Stationary LNG Storage Chapter 8 - Vaporization Facilities Chapter 9 - Piping Systems and Components Chapter 10 - Instrumentation and Electrical Services Chapter 11 - Transfer Systems for LNG, Refrigerants, and Other Flammable Fluids Chapter 12 - Fire Protection, Safety, and Security Chapter 13 - Requirements for Stationary Applications Using ASME Containers Chapter 14 - Operating, Maintenance, and Personnel Training Chapter 15 - Performance (Risk Assessment) Based LNG Plant Siting Annex A - Explanatory Material
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NFPA 70A

National Electrical Code
Requirements for One- and
Two-Family Dwellings

1/3/2005

Provides those wiring
methods and materials most
commonly encountered in
new construction at one-
and two-family dwellings.

residential facilities

Energy

90 Introduction
Chapter 1 General
100 Definitions
110 Requirements for Electrical
Installations
Chapter 2 Wiring and Protection
200 Use and Identification of
Grounded Conductors
210 Branch Circuits
215 Feeders
220 Branch-Circuit, Feeder, and
Service Calculations
225 Outside Branch Circuits and
Feeders
230 Services
240 Overcurrent Protection
250 Grounding and Bonding
280 Surge Arresters
285 Transient Voltage Surge
Suppressors: TVSSs
Chapter 3 Wiring Methods and
Materials
300 Wiring Methods
310 Conductors for General Wiring
312 Cabinets, Cutout Boxes, and
Meter Socket Enclosures
314 Outlet, Device, Pull, and

NFPA 72	National Fire Alarm and Signaling Code	29/8/2012	Describes the application, installation, location, performance, inspection, testing, and maintenance of fire alarm systems, supervising station alarm systems, public emergency alarm reporting systems, fire warning equipment and emergency communications systems (ECS), and their components.	communications	Emergency Services			Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - Reserved Chapter 5 - Reserved Chapter 6 - Reserved Chapter 7 - Documentation Chapter 8 - Reserved Chapter 9 - Reserved Chapter 10 - Fundamentals Chapter 11 - Reserved Chapter 12 - Circuits and Pathways Chapter 13 - Reserved Chapter 14 - Inspection, Testing, and Maintenance Chapter 15 - Reserved Chapter 16 - Reserved Chapter 17 - Initiating Devices Chapter 18 - Notification Appliances Chapter 19 - Reserved Chapter 20 - Reserved Chapter 21 - Emergency Control Function Interfaces Chapter 22 - Reserved Chapter 23 - Protected Premises Fire Alarm Systems Chapter 24 - Emergency
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NFPA 72	NATIONAL FIRE ALARM AND SIGNALING CODE	29/8/2012	Describes the application, installation, location, performance, inspection, testing, and maintenance of fire alarm systems, supervising station alarm systems, public emergency alarm reporting systems, fire warning equipment and emergency communications systems (ECS), and their components.	communications	Emergency Services			Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - Reserved Chapter 5 - Reserved Chapter 6 - Reserved Chapter 7 - Documentation Chapter 8 - Reserved Chapter 9 - Reserved Chapter 10 - Fundamentals Chapter 11 - Reserved Chapter 12 - Circuits and Pathways Chapter 13 - Reserved Chapter 14 - Inspection, Testing, and Maintenance Chapter 15 - Reserved Chapter 16 - Reserved Chapter 17 - Initiating Devices Chapter 18 - Notification Appliances Chapter 19 - Reserved Chapter 20 - Reserved Chapter 21 - Emergency Control Function Interfaces Chapter 22 - Reserved Chapter 23 - Protected Premises Fire Alarm Systems Chapter 24 - Emergency
NFPA 73	Electrical Inspection Code for Existing Dwellings	21/6/2010	Sets requirements for Reduce electrical hazards and keep dwellings up-to-date. Covers the latest provisions home inspectors need for verifying the safety of electrical systems in one- and two-family homes, multi-family dwellings with three or more units, mobile homes, and manufactured homes.	Energy	residential facilities			Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - General Requirements Chapter 5 - Appliances and Special Equipment Annex A - Explanatory Material Annex B - National Electrical Code References Annex C - Sample Ordinance Adopting NFPA 73 Annex D - Informational References Index

NFPA 75	PROTECTION OF INFORMATION TECHNOLOGY EQUIPMENT	22/5/2013	Defines the requirements for the protection of information technology equipment and information technology equipment areas.	Information Technology				Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - Risk Considerations Chapter 5 - Construction Requirements Chapter 6 - Materials and Equipment Permitted in the Information Technology Equipment Area Chapter 7 - Construction of Information Technology Equipment Chapter 8 - Fire Protection and Detection Equipment Chapter 9 - Records Kept or Stored in Information Technology Equipment Rooms Chapter 10 - Utilities Chapter 11 - Emergency and Recovery Procedures Annex A - Explanatory Material Annex B - What to Do in the First 24 Hours for Damaged Electronic Equipment and Magnetic Media
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NFPA 750	WATER MIST FIRE PROTECTION SYSTEMS	5/12/2009	Describes the minimum requirements for the design, installation, maintenance, and testing of water mist fire protection systems.	Water and Wastewater Systems	Commercial Facilities	Government Facilities	Residential Facilities	Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - General Chapter 5 - System Components and Hardware Chapter 6 - System Requirements Chapter 7 - Installation Requirements Chapter 8 - Design Objectives and Fire Test Protocols Chapter 9 - Calculations Chapter 10 - Water Supplies and Atomizing Media Chapter 11 - Plans and Documentation Chapter 12 - System Acceptance Chapter 13 - System Maintenance Chapter 14 - Marine Systems Annex A - Explanatory Material Annex B - Research Summary Annex C - Examples of Fire Test Protocols Annex D - Reliability Annex E - Informational References Index
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NFPA 80	FIRE DOORS AND OTHER OPENING PROTECTIVES	18/6/2012	Describes the installation and maintenance of assemblies and devices used to protect openings in walls, floors, and ceilings against the spread of fire and smoke within, into, or out of buildings.	Commercial Facilities	residential facilities	Government Facilities		Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - General Requirements Chapter 5 - Care and Maintenance Chapter 6 - Swinging Doors with Builders Hardware Chapter 7 - Swinging Doors with Fire Door Hardware Chapter 8 - Horizontally Sliding Doors Chapter 9 - Special-Purpose Horizontally Sliding Accordion or Folding Doors Chapter 10 - Vertically Sliding Fire Doors Chapter 11 - Rolling Steel Doors Chapter 12 - Fire Shutters Chapter 13 - Service Counter Fire Doors Chapter 14 - Hoistway Doors for Elevators and Dumbwaiters Chapter 15 - Chute Doors Chapter 16 - Access Doors Chapter 17 - Fire Windows Chapter 18 - Glass Block Assemblies Chapter 19 - Installation, Testing,
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NFPA 80	Fire Doors and Other Opening Protectives	18/6/2012	Describes the installation and maintenance of assemblies and devices used to protect openings in walls, floors, and ceilings against the spread of fire and smoke within, into, or out of buildings.	Commercial Facilities	residential facilities	Government Facilities		Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - General Requirements Chapter 5 - Care and Maintenance Chapter 6 - Swinging Doors with Builders Hardware Chapter 7 - Swinging Doors with Fire Door Hardware Chapter 8 - Horizontally Sliding Doors Chapter 9 - Special-Purpose Horizontally Sliding Accordion or Folding Doors Chapter 10 - Vertically Sliding Fire Doors Chapter 11 - Rolling Steel Doors Chapter 12 - Fire Shutters Chapter 13 - Service Counter Fire Doors Chapter 14 - Hoistway Doors for Elevators and Dumbwaiters Chapter 15 - Chute Doors Chapter 16 - Access Doors Chapter 17 - Fire Windows Chapter 18 - Glass Block Assemblies Chapter 19 - Installation, Testing,
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NFPA 801

FIRE PROTECTION FOR
FACILITIES HANDLING
RADIOACTIVE MATERIALS

21/8/2013

Describes fire protection requirements intended to reduce the risk of fires and explosions at facilities handling radioactive materials.

Nuclear Reactors,
Materials, and Waste

Chapter 1 - Administration
Chapter 2 - Referenced Publications
Chapter 3 - Definitions
Chapter 4 - Fire Protection Program
Chapter 5 - General Facility Design
Chapter 6 - General Fire Protection Systems and Equipment
Chapter 7 - Facilities, Processes, and Special Hazards
Chapter 8 - Fire Protection During Permanent Facility Shutdown and Decommissioning
Annex A - Explanatory Material
Annex B - Fire Hazards Analysis
Annex C - Sources of Radiation - The Nature of the Fire Problem
Annex D - Informational References
Index

NFPA 803	FIRE PROTECTION FOR LIGHT WATER NUCLEAR POWER PLANTS	1/4/1998	Provides firesafety guidelines for light water nuclear electric generating facilities, including operating personnel, equipment, and operations. Includes the following chapters: inventory of flammable and combustible materials; control of combustible material; fire prevention measures; fire suppression systems; yard mains and hydrants; planning and fire protection; fire prevention and fire protection for the construction site. Also gives detailed definitions.	Nuclear Reactors, Materials, and Waste	Commercial Facilities	Government Facilities	Energy	Chapter 1 Introduction 1-1 Scope 1-2 Purpose 1-3 Equivalency Concepts 1-4 Definitions 1-5 Introduction and Special Problems Relating to the Protection of Light Water Nuclear Electric Generating Stations 1-6 Units of Measurements Chapter 2 Functional Subdivisions of the Plant Layout 2-1 General 2-2 Reactor, Fuel and Auxiliary Life Safety 2-3 Cost Benefit 2-4 Fire Hazard Analysis Chapter 3 Inventory of Flammable and Combustible Materials 3-1 Combustible Materials 3-2 Fire Loading 3-3 Consumable Goods 3-4 Temporary Combustible Materials
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NFPA 804	FIRE PROTECTION FOR ADVANCED LIGHT WATER REACTOR ELECTRIC GENERATING PLANTS	5/12/2009	Pertains only to advanced light water reactor electric generating plants and provides minimum fire protection requirements to ensure safe shutdown of the reactor, minimize the release of radioactive materials to the environment, provide safety to life of on-site personnel, limit property damage, and protect continuity of plant operation.	Nuclear Reactors, Materials, and Waste	Commercial Facilities	Government Facilities	Energy	Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - Fire Protection Program Chapter 5 - Fire Prevention and Administrative Controls Chapter 6 - Manual Fire Fighting Chapter 7 - Nuclear Reactor Safety Considerations Chapter 8 - General Plant Design Chapter 9 - General Fire Protection Systems and Equipment Chapter 10 - Identification of and Protection Against Hazards Chapter 11 - Fire Protection for the Construction Site Annex A - Explanatory Material Annex B - Best Practices for Protection of Fire and Explosion Hazards in Nuclear Reactor Power Plants Annex C - Informational References Index
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NFPA 805	Performance-Based Standard for Fire Protection for Light Water Reactor Electric Generating Plants	5/12/2009	Describes the minimum fire protection requirements for existing light water nuclear power plants during all phases of plant operation, including shutdown, degraded conditions, and decommissioning.	Nuclear Reactors, Materials, and Waste	Commercial Facilities	Government Facilities	Energy	Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - Methodology Chapter 5 - Fundamental Fire Protection Program and Design Elements Chapter 6 - Determination of Fire Protection Systems and Features Chapter 7 - Fire Protection During Decommissioning and Permanent Shutdown Annex A - Explanatory Material Annex B - Nuclear Safety Analysis Annex C - Application of Fire Modeling in Nuclear Power Plant Fire Hazard Assessments Annex D - Use of Fire PSA Methods in NFPA 805 Annex E - Deterministic Approach - Plant Damage/Business Interruption Annex F - Informational References Index
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NFPA 806	Performance-Based Standard for Fire Protection for Advanced Nuclear Reactor Electric Generating Plants Change Process	5/12/2009	Gives minimum requirements for a risk-informed, performance-based change process for the fire protection program for advanced nuclear reactor electric generating plants during construction and all phases of plant operation, including shutdown, degraded conditions, and decommissioning.	Nuclear Reactors, Materials, and Waste	Commercial Facilities	Government Facilities	Energy	Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - General Requirements Chapter 5 - Methodology Annex A - Explanatory Material Annex B - Nuclear Safety Capability Assessment Annex C - Application of Fire Modeling in Nuclear Power Plant Fire Hazard Assessments Annex D - Use of Fire PSA Methods in NFPA 806 Annex E - Informational References Index
NFPA 80A	PROTECTION OF BUILDINGS FROM EXTERIOR FIRE EXPOSURES	20/6/2011	Provides separation distances between buildings to limit exterior fire spread based on exterior openings and other construction features.	Commercial Facilities	Government Facilities	Residential Facilities	Emergency Services	Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - Classification of Exposures and Recommended Separation Distances Chapter 5 - Means of Protection Annex A - Explanatory Material Annex B - Example Annex C - Informational References Index

NFPA 820	FIRE PROTECTION IN WASTEWATER TREATMENT AND COLLECTION FACILITIES	8/3/2012	Gives minimum requirements for protection against fire and explosion hazards in wastewater treatment plants and associated collection systems, including the hazard classification of specific areas and processes.	Water and Wastewater Systems	Commercial Facilities	Government Facilities	Emergency Services	Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - Collection Systems Chapter 5 - Liquid Stream Treatment Processes Chapter 6 - Solids Treatment Processes Chapter 7 - Fire and Explosion Prevention and Protection Chapter 8 - Materials of Construction Chapter 9 - Ventilation Chapter 10 - Administrative Controls Annex A - Explanatory Material Annex B - Wastewater Treatment Processes Annex C - Selection of Collection System Materials Annex D - Chemical and Fuel Fire/Explosion Hazards Annex E - List of Associations with Their Abbreviations Annex F - Informational References Index
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NFPA 850	FIRE PROTECTION FOR ELECTRIC GENERATING PLANTS AND HIGH VOLTAGE DIRECT CURRENT CONVERTER STATIONS	2/6/2010	Gives recommendations for fire prevention and fire protection for electric generating plants and high voltage direct current converter stations.	Energy	Commercial Facilities	Government Facilities	Emergency Services	Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - Fire Protection Design Process Chapter 5 - General Plant Design Chapter 6 - General Fire Protection Systems and Equipment Chapter 7 - Identification of and Protection Against Hazards Chapter 8 - Identification and Protection of Hazards for Combustion Turbines and Internal Combustion Engines Chapter 9 - Alternative Fuels Chapter 10 - Identification and Protection of Hazards for Wind Turbine Generating Facilities Chapter 11 - Solar Thermal Power Generation Chapter 12 - Geothermal Power Plants Chapter 13 - Identification and Protection of Hazards for Integrated Gasification Combined-
NFPA 8502	PREVENTION OF FURNACE EXPLOSIONS/IMPLOSIONS IN MULTIPLE BURNER BOILERS	1/4/1999		Commercial Facilities	Government Facilities	Energy		

NFPA 914	FIRE PROTECTION OF HISTORIC STRUCTURES	5/12/2009	Recommends minimum requirements for the protection of historic structures from fire through a comprehensive fire protection program, while protecting the elements, spaces, and features that make these structures historically or architecturally significant.	Commercial Facilities	Government Facilities	Residential Facilities	Emergency Services	Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - Goals and Objectives Chapter 5 - Reserved Chapter 6 - Security Chapter 7 - Process Chapter 8 - Prescriptive-Based Option Chapter 9 - Performance-Based Option Chapter 10 - Management Operational Systems Chapter 11 - Fire Prevention Chapter 12 - Additions, Alterations, and Rehabilitation Chapter 13 - Fire Precautions During Construction, Repair, and Alterations Chapter 14 - Inspection, Testing, and Maintenance Chapter 15 - Special Events Annex A - Explanatory Material Annex B - Planning and Design Appraisal Annex C - Survey Criteria for an Historic Structure
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NFPA 921	GUIDE FOR FIRE AND EXPLOSION INVESTIGATIONS	24/4/2014	Helps individuals who are charged with the responsibility of investigating and analyzing fire and explosion incidents and rendering opinions as to the origin, cause, responsibility, or prevention of such incidents, and the damage and injuries which arise from such incidents.	Emergency Services				Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - Basic Methodology Chapter 5 - Basic Fire Science Chapter 6 - Fire Patterns Chapter 7 - Building Systems Chapter 8 - Fire Protection Systems Chapter 9 - Electricity and Fire Chapter 10 - Building Fuel Gas Systems Chapter 11 - Fire-Related Human Behavior Chapter 12 - Legal Considerations Chapter 13 - Safety Chapter 14 - Sources of Information Chapter 15 - Planning the Investigation Chapter 16 - Documentation of the Investigation Chapter 17 - Physical Evidence Chapter 18 - Origin Determination Chapter 19 - Fire Cause Determination Chapter 20 - Classification of Fire Cause Chapter 21 - Analyzing the Incident
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NFPA 96	VENTILATION CONTROL AND FIRE PROTECTION OF COMMERCIAL COOKING OPERATIONS	21/8/2013	Gives the minimum fire safety requirements (preventative and operative) related to the design, installation, operation, inspection, and maintenance of all public and private cooking operations.	Commercial Facilities	Emergency Services			Chapter 1 - Administration Chapter 2 - Referenced Publications Chapter 3 - Definitions Chapter 4 - General Requirements Chapter 5 - Hoods Chapter 6 - Grease Removal Devices in Hoods Chapter 7 - Exhaust Duct Systems Chapter 8 - Air Movement Chapter 9 - Auxiliary Equipment Chapter 10 - Fire-Extinguishing Equipment Chapter 11 - Procedures for the Use, Inspection, Testing, and Maintenance of Equipment Chapter 12 - Minimum Safety Requirements for Cooking Equipment Chapter 13 - Recirculating Systems Chapter 14 - Solid Fuel Cooking Operations Chapter 15 - Downdraft Appliance Ventilation Systems Annex A - Explanatory Material Annex B - Informational References Index
NFPA FIRE & LIFE SAFETY CAD SYMBOLS	FIRE & LIFE SAFETY CAD SYMBOLS	2012		communications	Emergency Services			

NFPA HAZARDOUS MATERIALS RESPONSE HDBK	HAZARDOUS MATERIALS/WEAPONS OF MASS DESTRUCTION RESPONSE HANDBOOK	2013	Provides complete text of NFPA 472 and NFPA 473 and any applicable Formal Interpretations issued by the Association.	Emergency Services					Preface Acknowledgments Contributors About the Editor PART ONE - NFPA[R] 472, Standard for Competence of Responders to Hazardous Materials/Weapons of Mass Destruction Incidents, 2013 Edition, with Commentary 1 Administration 2 Referenced Publications 3 Definitions 4 Competencies for Awareness Level Personnel 5 Core Competencies for Operations Level Responders 6 Competencies for Operations Level Responders Assigned Mission-Specific Responsibilities 7 Competencies for Hazardous Materials Technicians 8 Competencies for Incident Commanders 9 Competencies for Specialist Employees 10 Competencies for Hazardous Materials Officers 11 Competencies for Hazardous Materials Safety Officers 12 Competencies for Hazardous Materials Technicians with a Tank Car Specialty 13 Competencies for Hazardous
NFPA HAZARDOUS MATERIALS RESPONSE SET	HAZARDOUS MATERIALS/WMD RESPONSE SET	2013		Emergency Services					
NFPA SURVIVING A DISASTER VIDEO	SURVIVING A DISASTER VIDEO			Emergency Services					

ANSI/NGWA 01	Water Well Construction Standard	2014	The standard provides requirements for construction of water supply wells. Topics covered include water well site selection, water well casing and casing installation; water well screens, filter pack, and formation stabilizer; water well grouting; water well plumbness and alignment; water well development; water well testing for performance; data recording pertaining to water wells; water well disinfection with chlorine; water well sampling and testing; and decommissioning and abandonment of water wells.	Water and Wastewater Systems				
	Best Suggested Practices for Managing a Flowing Water Well			Water and Wastewater Systems				
	Best Suggested Practices for Reducing Iron and Manganese in Residential Water Well Systems			Water and Wastewater Systems				
	Best Suggested Practices for Reducing Problematic Concentrations of Arsenic in Residential Water Well Systems			Water and Wastewater Systems				
	Best Suggested Practices for Reducing Problematic Concentrations of Boron in Residential Water Well Systems			Water and Wastewater Systems				
	Best Suggested Practices for Reducing Problematic Concentrations of Fluoride in Residential Water Well Systems			Water and Wastewater Systems				

	Best Suggested Practices for Reducing Problematic Concentrations of Hydrogen Sulfide in Residential Water Well Systems			Water and Wastewater Systems				
	Best Suggested Practices for Reducing Problematic Concentrations of Microorganisms in Residential Water Well Systems		This industry-derived document was developed through consensus of water well system professionals. Details are included on the health effects of microorganisms in water systems, their origination, and procedures to help reduce or remediate their presence in a water well system. Disinfection processes are included as well as concentration information for various chemical applications. Water treatment systems are also discussed as long term options for water well systems that do not respond sufficiently to disinfection of the well itself.	Water and Wastewater Systems				
	Best Suggested Practices for Reducing Problematic Concentrations of Nitrates in Residential Water Well Systems			Water and Wastewater Systems				
	Best Suggested Practices for Reducing Problematic Concentrations of Perchlorate in Residential Water Well Systems			Water and Wastewater Systems				
	Best Suggested Practices for Reducing Problematic Concentrations of Radon in Residential Water Well Systems			Water and Wastewater Systems				

	Best Suggested Practices for Reducing Problematic Concentrations of Strontium in Residential Water Well Systems			Water and Wastewater Systems				
	Best Suggested Practices for Reducing Problematic Concentrations of Uranium in Residential Water Well Systems			Water and Wastewater Systems				
	Best Suggested Practices for Residential Water Well Cleaning			Water and Wastewater Systems				
	Best Suggested Practices for Residential Water Well Disinfection Following a Flood Event: Procedures for Water Well System Professionals		This document was developed through consensus of industry professionals and includes information for actions following a flood event during which a water well may have been inundated with floodwater. The document describes actions and safety precautions regarding preparation to service a flooded well, cleaning the well system, and disinfection concentrations and application procedures for various well configurations.	Water and Wastewater Systems				
	Best Suggested Practices for Water Well Systems for Fire Protection Services for Stand-Alone Housing Units of Four or Fewer			Water and Wastewater Systems				
	Best Suggested Practices for Water Well Systems Inspection			Water and Wastewater Systems				

	Best Suggested Practices to Reduce and Mitigate Problematic Concentrations of Methane in Residential Water Well Systems			Water and Wastewater Systems				
NSF 61	Drinking water system components - Health effects	22/10/2013	Describes specific materials or products that come into contact with drinking water, drinking water treatment chemicals, or both.	Water and Wastewater Systems				<ul style="list-style-type: none"> 1 Purpose, scope, and normative references 2 Definitions 3 General requirements 4 Pipes and related products 5 Barrier materials 6 Joining and sealing materials 7 Process media 8 Mechanical devices 9 Mechanical plumbing devices 10 Instructions and information Annex A (normative) - Toxicology review and evaluation procedures Annex B (normative) - Product/material evaluation Annex C (normative) - Acceptable materials Annex D (normative) - Normative drinking water criteria Annex E (informative) - Informational drinking water criteria Annex F (informative) - Revisions to the evaluation of lead Annex G (normative) - Weighted average lead content evaluation procedure to a 0.25%
AEP-(F)	Manual of techniques of sampling and analysis of gases and liquified gases for aircraft servicing	2009		Transportation Systems				
STANAG 2399	Battlefield Recovery/Evacuation Operations	19/1/1995	Outlines NATO operational procedures for recovery and evacuation procedures.	Emergency Services				
System Control Ball Valves for Fire Protection Service				Emergency Services	Residential Facilities	Commercial Facilities	Government Facilities	
Evaluating Compatibility of Products with CPVC Piping					Residential Facilities	Commercial Facilities	Government Facilities	

Tamper Resistant Features of Hydrants for Fire-Protection Service				Emergency Services	Residential Facilities	Commercial Facilities	Government Facilities	
Air Pressure Maintenance Devices					Residential Facilities	Commercial Facilities	Government Facilities	
Butterfly Valve Indicator Posts for Fire Protection Service				Emergency Services	Residential Facilities	Commercial Facilities	Government Facilities	
ANSI / RESNA ED-1	Emergency Stair Travel Devices for Individuals with Disabilities	2013	A performance standard for emergency stair travel devices used by individuals with disabilities during building evacuation. Volume 1 of the Standard was approved in February 2013, and covers track-type, controlled-descent, manual-ascent devices. ED-1 covers device terminology, measurement methods, weight capacity, maneuverability, stability, and inspection. Test methods are provided, as well as forms for the reporting of test results and inspections. ED-1 has been adopted by the National Fire Protection Association, for inclusion in NFPA 101 – Life Safety Code Annex, and is being considered for adoption by other code development groups.	Emergency Services	Commercial Facilities	Government Facilities	Residential Facilities	
GOST 31167	BUILDINGS AND STRUCTURES - METHODS FOR DETERMINATION OF AIR PERMEABILITY OF BUILDING ENVELOPES IN FIELD CONDITIONS	1/3/2011		Commercial Facilities	Government Facilities	Residential Facilities		
GOST 31168	HOUSES - METHOD FOR DETERMINATION OF SPECIFIC HEAT CONSUMPTION FOR BUILDING HEATING	1/7/2003		Commercial Facilities	Government Facilities	Residential Facilities	Energy	

GOST 31383	PROTECTION AGAINST CORROSION OF CONCRETE AND REINFORCED CONCRETE CONSTRUCTIONS - TEST METHODS	1/7/2010		Commercial Facilities	Government Facilities	Residential Facilities		
GOST 31384	STRUCTURAL CONCRETE PROTECTION AGAINST CORROSION - GENERAL REQUIREMENTS	1/3/2010		Commercial Facilities	Government Facilities	Residential Facilities		
GOST R 54614	AIR TRANSPORT - ALARM MEANS FACILITATING DETECTION OF CIVIL AIRCRAFTS WHICH HAVE SUFFERED DISASTER IN DAY AND NIGHT CONDITIONS (PYROTECHNIC, RADIO-, LIGHT-REFLECTING, STROBOSCOPIC LAMPS, STREAMERS) - GENERAL REQUIREMENTS	1/6/2012		Transportation Systems	Emergency Services			
ANSI/SMACNA 001	Seismic Restraint Manual Guidelines for Mechanical - OSHPD	2008	updated set of guidelines that shows designers and contractors how to determine the correct restraints for sheet metal ducts, piping and conduit, so that they are more likely to remain attached to the building during an earthquake. The manual shows how very low- and very high-risk areas of the country can be accommodated. The new edition includes a more extensive list of bracing options and has been revised to comply with current building codes all within a single document for user convenience.	Commercial Facilities	Government Facilities	Residential Facilities		

SMACNA	Architectural Sheet Metal Inspection Guide	2004	An invaluable inspection resource for owners of standing seam, batten seam, or Bermuda-type roofs. Presents practical troubleshooting and corrective tips for typical problems of roof panels, gutters, downspouts, fascia, copings, flashing, ridges and hips, valleys, expansion joints, penetrations, fasteners and soldering. Also provides relevant information regarding construction of these architectural elements, the purpose of each, as well as what to look for during periodic inspections. Sealants, moisture transfer methods and air leakage are also covered. Emphasizes the importance of regular and appropriately timed inspections because a small problem discovered early	Commercial Facilities	Government Facilities	Residential Facilities		
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SMACNA	Architectural Sheet Metal Manual	2012	<p>This completely revised publication contains the most comprehensive set of recommended practices available for proper design and installation of custom-fabricated architectural sheet metal including roof drainage system design for scuppers, gutters and downspouts. Features more details in the historical restoration section on skylights, cornices and spires; new moisture and maintenance guide with underlayments; mechanical fasteners and soldering guidance; and enhanced metals selection data. Offers new construction techniques and alternative methods of design and installation reflecting climatic conditions and rainfall rates. An upfront, fast "look-up" key speeds information retrieval.</p>	Commercial Facilities	Government Facilities	Residential Facilities		
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SMACNA

Residential Sheet Metal
Guidelines

2001

Covering topics that include roof drainage systems, decks, chimneys, windows, doors and ledges, the new manual presents details and explanations based on and designed for low-rise residential buildings, up to three stories, that are used as single-family and multi-family dwellings. The guide also highlights details commonly used in residential sheet metal work throughout the industry. In addition to generic detail drawings, design data and the appendixes will help users to adapt the drawings to local climate and project conditions. Carefully examining the information along with the local climate conditions will enable users to select the proper details for practically any residential architectural sheet metal

residential facilities

SMACNA	Seismic Restraint Manual Guidelines for Mechanical Systems	2009	This special edition of the SMACNA Seismic Restraint Manual • OSHPD Edition has been developed to meet the specific requirements of the California Office of Statewide Health Planning and Development (OSHPD) for hospital and health care facilities construction. The seismic hazard tables with this special edition are limited to the SHL A (g = 0.67) and SHL AA (g = 1.0) applicable to the hospital and health care facilities outlined in the use of the manual. The manual is not intended to cover the ordinary supports for ducts and pipes required for gravity loads. The only restraints shown in the tables and figures are those needed to provide the extra support for seismic loads.	Commercial Facilities	Government Facilities	Residential Facilities		
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SMACNA	Technical Manual Collection	2013	Thirty of SMACNA's most requested technical manuals are conveniently located in PDF format with searchable indexes on one CD-ROM. Purchase the entire set for substantial savings. Among the titles are HVAC Duct Construction Standards—Metal & Flexible; Fire, Smoke & Radiation Damper Installation Guide for HVAC Systems; Indoor Air Quality—A Systems Approach; and Round Industrial Duct Construction Standard.	Commercial Facilities	Government Facilities	Residential Facilities		
ANSI/GRHC/SPRI VR-1	Procedure for Investigating Resistance to Root Penetration on Vegetative Roofs	2011		Commercial Facilities	Government Facilities	Residential Facilities		
ANSI/SPRI FX-1	Standard Field Test Procedure for Determining the Withdrawal Resistance of Roofing Fasteners	2011		Commercial Facilities	Government Facilities	Residential Facilities		
ANSI/SPRI FX-1	Standard Field Test Procedure for Determining the Withdrawal Resistance of Roofing Fasteners	2011		Commercial Facilities	Government Facilities	Residential Facilities		
ANSI/SPRI GD-1	Structural Design Standard for Gutter Systems Used with Low-Slope Roofs	2012		Commercial Facilities	Government Facilities	Residential Facilities		
ANSI/SPRI GD-1	Structural Design Standard for Gutter Systems Used with Low-Slope Roofs	2010		Commercial Facilities	Government Facilities	Residential Facilities		

ANSI/SPRI IA-1	Standard Field Test Procedure for Determining the Mechanical Uplift Resistance of Insulation Adhesives over Various Substrates - V2	2010		Commercial Facilities	Government Facilities	Residential Facilities		
ANSI/SPRI IA-1	Standard Field Test Procedure for Determining the Mechanical Uplift Resistance of Insulation Adhesives over Various Substrates - V2	2010		Commercial Facilities	Government Facilities	Residential Facilities		
ANSI/SPRI RD-1	Performance Standard for Retrofit Drains	2009		Commercial Facilities	Government Facilities	Residential Facilities		
ANSI/SPRI RD-1	Performance Standard for Retrofit Drains	2009		Commercial Facilities	Government Facilities	Residential Facilities		
ANSI/SPRI RP-14	Wind Design Standard for Vegetative Roofing Systems	2010		Commercial Facilities	Government Facilities	Residential Facilities		
ANSI/SPRI RP-14	Wind Design Standard for Vegetative Roofing Systems	2010		Commercial Facilities	Government Facilities	Residential Facilities		
ANSI/SPRI RP-4	Wind Design Standard For Ballasted Single-ply Roofing Systems	2013		Commercial Facilities	Government Facilities	Residential Facilities		
ANSI/SPRI RP-4	Wind Design Standard For Ballasted Single-ply Roofing Systems	2013		Commercial Facilities	Government Facilities	Residential Facilities		
ANSI/SPRI VF-1	External Fire Design Standard For Vegetative Roofs	2010		Commercial Facilities	Government Facilities	Residential Facilities		
ANSI/SPRI WD-1	Wind Design Standard Practice for Roofing Assemblies	2012,		Commercial Facilities	Government Facilities	Residential Facilities		

Organization	Number
American Railway Engineering and Maintenance-of-Way Association (AREMA)	

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(AREMA)

American Railway Engineering and Maintenance-of-Way Association (AREMA)	
American Railway Engineering and Maintenance-of-Way Association (AREMA)	
ASCE Technical Committee on Lifeline Earthquake Engineering	PROCEEDINGS TCLEE 2009: Lifeline Earthquake Engineering in a Multihazard Environment
Bell Telephone	

California Dept. of Transportation (CALTRANS)	Technical Publications
Center for Disease Control (CDC)	Public Health Preparedness Capabilities: National Standards for State and Local Planning
Department of Homeland Security	NIPP 2013
Federal Highway Administration (FHWA)	FHWA-HRT-05-067
Federal Highway Administration (FHWA)	FHWA-HRT-06-032

Federal Highway Administration (FHWA)

Section 106

Fritz Institute

Government Accountability Office

GAO-14-603T

IETF	A Framework for Supporting Emergency Telecommunications Services (ETS) Within a Single Administrative Domain, Ken Carlberg
Naval Facilities Engineering Service Center (NFESC)	TR-2069-SHR
NAVFAC	DM-25.1
NIH Model guide for comm disaster resistance planning	
NISEE	NCEL R-939
Relief Web	Disaster Resilience Topic Guide
SHEET METAL & AIR CONDITIONING NATIONAL CONTRACTORS' ASSOCIATION (SMACNA)	

The Lifelines Council - City and County of San Fransico

UNISDR United nations international strategy for disaster reduction

Presidential Policy Directive /
PPD-8: National Preparedness

Title	Date	Scope
Manual for Railway Engineering	2012	<p>The Manual consists of more than 5,000 pages of railway engineering reference material, the recommended practices for the industry. It contains principles, data, specifications, plans and economics pertaining to the engineering, design and construction of the fixed plant of railways (except signals and communications), and allied services and facilities. The material is developed by AREMA technical committees and is published as a guide to railways in establishing their individual policies and practices relative to the subjects, activities and facilities covered in the Manual, with the aim of assisting them to engineer and construct a railway plant which will have inherent qualities of safe and economical operation as well as low maintenance cost. Chapters are grouped into four general categories, each in a separate volume: Track * Structures * Infrastructure and Passenger * Systems Management.</p>

Bridge Inspection Handbook		<p>The AREMA Bridge Inspection Handbook© provides a comprehensive source of information and criteria for bridge inspections for engineers engaged in the assessment of railway bridges. This Handbook is published as a guide to establishing policies and practices relative to bridge inspection. It covers such topics as confined spaces, site conditions, loads & forces, nomenclature, bridge decks, timber, concrete & steel bridges, movable bridges, tunnel and culvert inspections, and emergency & post-earthquake inspections. Also included are many color photographed examples in several chapters, as well as a glossary</p>
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<p>Design of Modern Steel Railway Bridges</p>		<p>Design of Modern Steel Railway Bridges focuses not only on new steel superstructures but also outlines principles and methods that are useful for the maintenance and rehabilitation of existing steel railway bridges. It complements the recommended practices of the American Railway Engineering and Maintenance-of-Way Association (AREMA), in particular Chapter 15-Steel Structures in AREMA's Manual for Railway Engineering (MRE). The book has been carefully designed to remain valid through many editions of the MRE.</p> <p>The author examines the methods for analysis and design of modern steel railway bridges. He details the history of steel railway bridges in the development of transportation systems, discusses modern materials, and presents an extensive treatment of railway bridge loads and moving load analysis. He then outlines the design of steel structural members and connections in accordance with AREMA recommended practice,</p>
<p>PRACTICAL GUIDE TO RAILWAY ENGINEERING</p>		<p>This text combines and consolidates the most useful information from a multitude of sources including:</p> <p>AREMA Manuals Railway Engineering by W.W. Hay Railway Curves and Earthwork by C. Frank Allen FRA, USDOT and other agency sources.</p>
<p>Bell System Practices https://archive.org/details/bellsystempractices</p>		

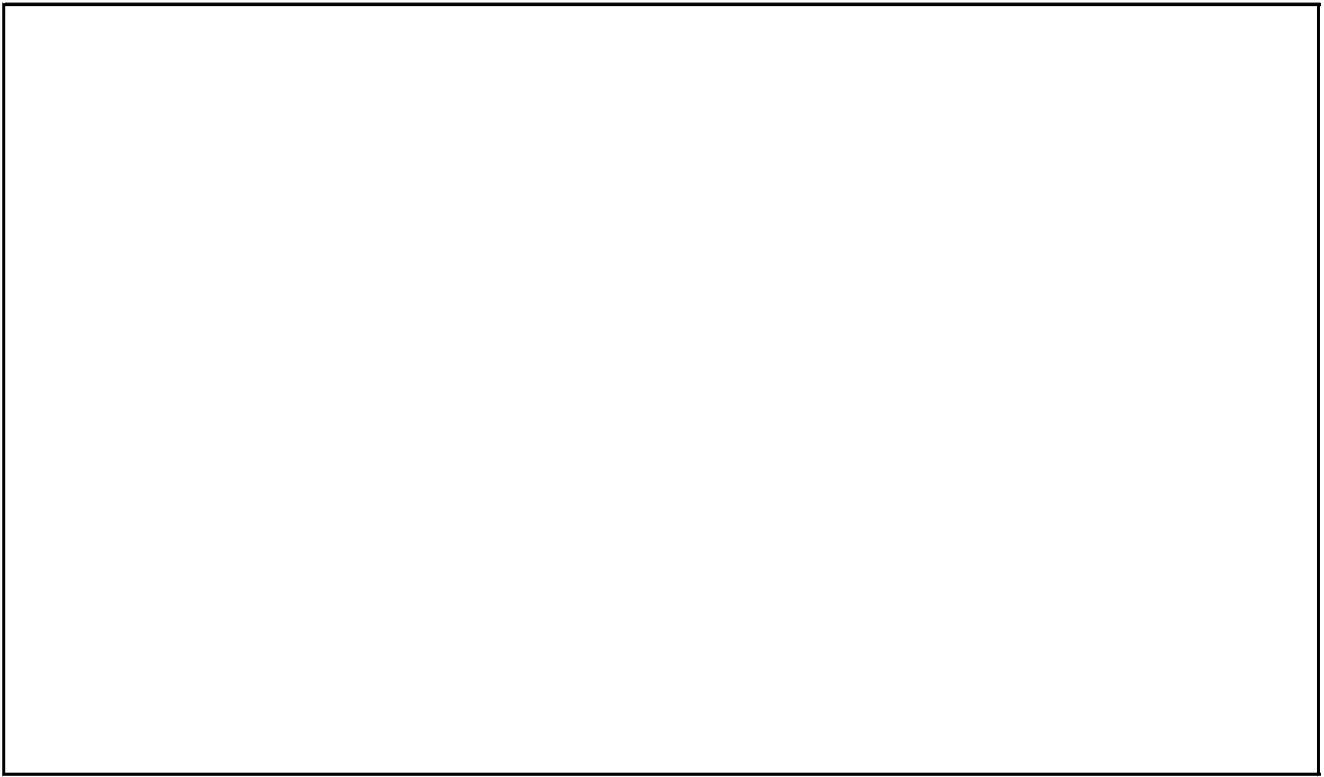
Engineering Services Manuals, Design, and Construction publications		
Mar-11		Creates national standards for public health preparedness capability-based planning and will assist state and local planners in identifying gaps in preparedness, determining the specific jurisdictional priorities, and developing plans for building and sustaining capabilities. These standards are designed to accelerate state and local preparedness planning, provide guidance and recommendations for preparedness planning, and, ultimately, assure safer, more resilient, and better prepared communities.
Partnering for Critical Infrastructure Security and Resilience	Jul-05	
Seismic Retrofitting Manual for Highway Structures: Part 2 – Retaining Structures, Slopes, Tunnels, Culverts, and Roadways	Aug-04	
Seismic Retrofitting Manual for Highway Structures: Part 1 – Bridges	Jan-06	

Historic Preservation Act		
A DISASTER RESILIENCE STANDARD FOR COMMUNITY- AND FAITH-BASED SERVICE PROVIDERS	Jun-09	A Disaster Resilience Standard for Community – and Faith-Based Service Providers is designed as a tool for continuous improvement as part of a voluntary process to apply best practices to increase the capacity of community – and faith based organizations to fulfill their mission to provide services to their clients during and after emergencies and disasters. Fritz Institute makes no representation or guarantee as to the efficacy of any program as a result of use of or compliance with the standards contained herein. Fritz Institute makes no guaranty or warranty as to the completeness of information in this document, and Fritz Institute expressly disclaims liability for any personal injury or damages of any nature resulting from the publication, use of, or reliance on this document.
DISASTER RESILIENCE Actions Are Underway, but Federal Fiscal Exposure Highlights the Need for Continued Attention to Longstanding Challenges	May-14	

	2007	
DESIGN CRITERIA FOR EARTHQUAKE HAZARD MITIGATION OF NAVY PIERS AND WHARVES	Mar-97	
Piers and Wharves		
The seismic design of waterfront retaining structures	1993	
		This topic guide focuses on resilience to natural hazards, with emphasis on humanitarian action, in fragile and conflict-afflicted states as well as in other contexts. Although some principles are common to both contexts, there remains a high level of uncertainty about how to build resilience in adverse political economies.
Technical Publications/Standards https://www.smacna.org/store		

<p>Lifeline Interdependency Study Report http://www.sfgsa.org/modules/showdocument.aspx?documentid=12025</p>	<p>Apr-14</p>	<p>The study found that the expected levels of system damage are not as severe as they might have been without the major retrofits and upgrades that have been made to many of the city's and region's lifeline systems over the past decades. Nonetheless, most lifeline systems are still vulnerable to moderate damage that could substantially affect system functioning and delay restoration. The study has also found that the restoration of some lifeline systems is closely coupled and interdependent with the performance and restoration of other lifelines systems. This coupling varies with time—in the first hours, days, weeks, and months—following a major disaster. And, thus, while some lifeline systems may only experience moderate damage, their restoration could be significantly delayed because of these interdependencies. The study also</p>
	<p>2011</p>	

Link



<http://www.dot.ca.gov/hq/esc/techpubs/>

http://www.dhs.gov/sites/default/files/publications/NIPP%202013_Partnering%20for%20Critical%20Infrastructure%20Security%20and%20Resilience_508_0.pdf

<http://www.gao.gov/assets/670/663179.pdf>

http://reliefweb.int/report/world/disaster-resilience-topic-guide

<http://www.dhs.gov/xlibrary/assets/presidential-policy-directive-8-national-preparedness.pdf>

critical infrastructure sectors based on NIPP sectors with the exception of highlighted

Chemical

Business Continuity

Commercial Facilities

Communications

Critical Manufacturing

Dams

Defense Industrial Base

Emergency Services

Energy

Financial Services

Food and Agriculture

Government Facilities

Healthcare and Public Health

Information Technology

Nuclear Reactors, Materials, and Waste

Residential Facilities

Societal

Transportation Systems

Water and Wastewater Systems