



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

10 AMD 1 Standard for Portable Fire Extinguishers

2012 NESC Handbook National Electrical Safety Code(NESC) Handbook

A 112.18.1M Plumbing Fixture Fittings

A 112.19.6 Hydraulic Requirements for Water Closets and Urinals

AA SAA-46-516124 Anodized Architectural Aluminum

AA Specifications for Aluminum Structures

AA STFA-601711 The Surface Treatment and Finishing of Aluminum and Its Alloys

AABC National Standard for Total System Balance Air Distribution-Hydronic Systems-Sound-Vibration-Field Surveys for Energy Audits

AAHC Standards of the Accreditation Association for Ambulatory Health Care (AAAHC), Core and Adjunct Standards

AAMA 1002.10 Aluminum Insulating Storm Products for Windows and Sliding Glass Doors

AAMA 1002.9 Voluntary Specifications for Aluminum Combination Storm Windows for External Applications

AAMA 101 Voluntary Specifications for Aluminum Prime Windows and Sliding Glass Doors

AAMA 101/I.S.2 Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors

AAMA 1102.7 Voluntary Specifications for Aluminum Storm Doors

AAMA 611 Anodized Architectural Aluminum

AAMA 800 Sealant Specifications for Use with Architectural Aluminum

AASHTO BM-2 Manual for Bridge Maintenance

AASHTO GDHS-2 A Policy on Geometric Design of Highways and Streets

AASHTO GSDB Guide Specification for Seismic Isolation Design



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

AASHTO GSH Guide Specifications for Highway Construction

AASHTO HB-13 (HB-15) Highway Bridges

AASHTO HDG Highway Drainage Guidelines

AASHTO Highway Safety Manual, 1st Edition - 2010

AASHTO LTS-1 (LTS-2) Structural Supports for Highway Signs, Luminaries, and Traffic Signals

AASHTO Roadside Design Guide, 4th Edition - 2011

AASHTO SR Highway Safety Design and Operations Guide

AASHTO T104 Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate

AASHTO T11 Amount of Material Finer Than 0.075 mm Sieve in Aggregate

AASHTO T164 Quantitative Extraction of Bitumen from Bituminous Paving Mixtures

AASHTO T165 Effect of Water on Cohesion of Compacted Bituminous Mixtures

AASHTO T166 Bulk Specific Gravity of Compacted Bituminous Mixtures

AASHTO T167 Compressive Strength of Bituminous Mixtures

AASHTO T245 Resistance to Plastic Flow of Bituminous Mixtures Using Marshall Apparatus

AASHTO T258 Test for Determining Expansive Soils

AASHTO T27 Sieve Analysis of Fine and Coarse Aggregates

AASHTO T30 Mechanical Analysis of Extracted Aggregate

AASHTO T89 Determining the Liquid Limit of Soils

AASHTO T90 Determining the Plastic Limit and Plasticity Index of Soils

AASHTO T96 Resistance to Abrasion of Small Size Coarse Aggregate by Use of the Los Angeles Machine



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

AASHTO VLVLR Guidelines for Geometric Design of Very Low-Volume Local Roads (ADT Less Than or Equal to 400)

ACGIH Industrial Ventilation: A Manual of Recommended Practice

ACGIH Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices

ACI 201.2R Guide to Durable Concrete

ACI 207.1R Mass Concrete

ACI 207.4R Cooling and Insulating Systems for Mass Concrete

ACI 211.1 Selecting Proportions for Normal, Heavyweight, and Mass Concrete

ACI 211.2 Proportions for Structural Lightweight Concrete

ACI 214 Evaluation of Strength Test Results of Concrete

ACI 216.1 Determining Fire Resistance of Concrete and Masonry Construction Assemblies

ACI 232.3R Report on High-Volume Fly Ash Concrete for Structural Applications

ACI 301 Structural Concrete for Buildings

ACI 304 (304R) Guide for Measuring, Mixing, Transporting, and Placing Concrete

ACI 305R Hot Weather Concreting

ACI 306R Cold Weather Concreting

ACI 307 Design and Construction of Reinforced Concrete Chimneys

ACI 308 Curing Concrete

ACI 309 Recommended Practice for Consolidation of Concrete

ACI 309R Consolidation of Concrete

ACI 314R Guide to Simplified Design for Reinforced Concrete Buildings (ACI 314R-16).



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ACI 315R Details and Detailing of Concrete Reinforcement

ACI 318 Building Code Requirements for Reinforced Concrete

ACI 336.2R Suggested Analysis and Design Procedures for Combined Footing and Mats

ACI 336.3R Suggested Design and Construction Procedures for Pier Foundations

ACI 347 Formwork for Concrete, Fifth Edition

ACI 349 Nuclear Safety Related Concrete Structures

ACI 350-01 Environmental Engineering Concrete Structures

ACI 350M-01 Environmental Engineering Concrete Structures (Metric Version)

ACI 350R Environmental Engineering Concrete Structures

ACI 352R Recommendations for Design of Beam-Column Joints in Monolithic Reinforced Concrete Structures

ACI 355.2 Qualification of Post-Installed Mechanical Anchors in Concrete and Commentary

ACI 355.4 Qualification of Post-Installed Adhesive Anchors in Concrete (ACI 355.4) and Commentary

ACI 363R Report on High-Strength Concrete

ACI 503.4 Repairing Concrete with Epoxy Mortars

ACI 515.1R Guide to the Use of Waterproofing, Damp Proofing, Protective, and Decorative Barrier Systems for Concrete

ACI 530 Building Code Requirements for Masonry Structures Specification for Masonry Structures and Commentary

ACI 531 Building Code Requirements for Concrete Masonry Structures

ACI 531.1 Specifications for Concrete Masonry

ACI 543R Recommendation for Design, Manufacture, and Installation of Concrete Piles



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ACI 544.8R Report on Indirect Method to Obtain Stress-Strain Response of Fiber-Reinforced Concrete (FRC)

ACI 546.1R Guide for Repair of Concrete Bridge Superstructures

ACI 562 Code Requirements for Assessment, Repair, and Rehabilitation of Existing Concrete Structures and Commentary

ACI MCP 2005 Manual of Concrete Practice (as applicable to the specific project)

ACI SP-205 Finite Element Analysis of Reinforced Concrete Structures

ACI SP-4 (347-89) Formwork for Concrete

ACI SP-66 ACI Detailing Manual

ACS PH1.28 Archival Records, Silver-Gelatin Type or Cellulose Ester Base

ACS PH1.41 Archival Records, Silver-Gelatin Type on Polyester Base

ACS PH1.53 Processed Films, Plates, and Papers—Filing Enclosures and Containers for Storage

AFMAN 91-201, Chapter. 2, Section A Explosives Safety Standards (Explosives Safety Requirements)

AGA 1 Requirements for Heat Reclaimer Devices for Use with Gas-Fired Appliances

AGS G001 Guideline for Gloveboxes, Second Edition

AGS G002 Design and Fabrication of Glovebags

AGS G003 Application of Linings to Gloveboxes

AGS G005 Specification of Gloves for Gloveboxes

AGS G006 Design and Fabrication of Nuclear-Application Gloveboxes

AHRI 410 Forced-Circulation Air-Cooling and Air-Heating Coils

AHRI 450 Performance Rating of Water-Cooled Refrigerant Condensers, Remote Type

AIHA Hygiene Guide Series



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

AIHA Industrial Noise Manual (see Noise and Hearing Conservation Manual)

AIHA Noise and Hearing Conservation Manual

AIHA The AIHA 2004 Emergency Response Planning Guidelines and Workplace Environmental Exposure Level Guides Handbook

AIHA Workplace Environmental Exposure Level Guides

AIHA-2004 American Industrial Hygiene Association, 2004 Emergency Response Planning Guidelines (ERPG) Update Set

AIIM MS 5 Microfiche

AIIM MS 9 Aperture, Camera, Copy and Image Cards

AIIM MS14 Specifications for 16- and 35-mm Roll Microfilm

AIIM MS23 Practice for Operational Procedures/Inspection and Quality Control of First-Generation Silver—Gelatin Microfilm of Documents

AIIM MS43 Recommended Practice for Operational Procedures/Inspection and Quality Control of Duplicate Microforms of Documents and from COM

AISC 303 Code of Standard Practice for Steel Buildings and Bridges

AISC 325 ERTA Steel Construction Manual - 15th Edition

AISC Detailing for Steel Construction

AISC M 011 (M016-89) Manual of Steel Construction Allowable Stress Design Ninth Edition

AISC N690 (S327-84) Nuclear Facilities—Steel Safety-Related Structures for Design, Fabrication and Erection

AISC S 326 (S328-86) Specification for Structural Steel Building Load and Resistance Factor Design

AISC Steel Buildings and Bridges

AISCE 325-10 Steel Construction Manual

AISI Manual for Structural Application of Steel Cables for Buildings



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

AISI SG-673 Specifications for the Design of Cold-Formed Steel Structural Members

AMA OOSH-213 Scope, Objectives, and Functions of Occupational Health Programs

AMA OOSH-290 Epidemiology in Occupational Disease and Injury

AMCA 201 Fans and Systems

AMCA 210 Laboratory Methods for Testing Fans for Ratings

AMCA 261 Directory of Products Licensed to Bear the AMCA Certified Rating Seal

AMCA 99 Standards Handbook

American Industrial Hygiene Emergency Response Planning Guidelines (ERPG) Update Set

ANS 15.21 Format And Content for Safety Analysis Reports for Research Reactors

ANS 5.10 Airborne Release Fractions at Non-Reactor Nuclear Facilities - Includes Appendix A: 2013, Appendix B and Appendix C

ANS 6.4.2 Specification for Radiation Shielding Materials

ANS 8.27 Burnup Credit for LWR Fuel

ANS RA-S-1.2 Severe Accident Progression and Radiological Release (Level 2) PRA Standard for Nuclear Power Plant Applications for Light Water Reactors (LWRs)

ANSI 05.1 Wood Products - Specifications and Dimensions

ANSI 05.1a Wood Poles and Products - Supplement to ANSI 05.1-2002

ANSI 05.1b Wood Poles and Products - Supplement to ANSI 05.1-2002

ANSI 14.4 Safety Requirements for Job Made Wooden Ladders

ANSI 156.12-2005 Grade 1, Mortise Locksets

ANSI 156.2-2003 Grade 1, Bored and Preassembled Locks and Latches

ANSI 2.3-1967 Immediate Evacuation Signal for Use in Industrial Installations Where Radiation Exposure May Occur



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ANSI 351a ANSI/IEEE Graphic Symbols for Electrical and Electronic Diagrams

ANSI 42.17C Performance specifications for health physics instrumentation - portable instrumentation for use in extreme environmental conditions

ANSI A1.5 Safety Requirements for Material Hoists

ANSI A10.18 Floor and Wall Openings, Railings and Toe Boards

ANSI A10.28 Work Platforms Suspended from Cranes or Derricks

ANSI A10.31 Construction and Demolition

ANSI A10.33-1992 Safety and Health Program Requirements for Multi-Employer Projects

ANSI A108.1 Installation of Ceramic Tile with Portland Cement Mortar

ANSI A115 Door and Frame Preparation

ANSI A115.1 Door and Frame Preparation for Mortise Door Locks for 1-3/4-inch Doors

ANSI A13.1 Scheme for the Identification of Piping Systems

ANSI A14.1-1994 Ladders—Portable Wood—Safety Requirements

ANSI A14.2 Portable Metal Ladders

ANSI A14.2-1990 Safety Requirements for Portable Metal Ladders

ANSI A14.3 Ladders – Fixed – Safety Requirements

ANSI A14.3-1992 Ladders—Fixed—Safety Requirements

ANSI A14.5 Portable Reinforced Plastic Ladders

ANSI A14.5-1992 Ladders—Portable Reinforced Plastic—Safety Requirements

ANSI A14.7 Safety Requirements for Mobile Ladder Stands and Mobile Ladder Stand Platforms

ANSI A156 Hardware

ANSI A156.1 Butts and Hinges



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ANSI A156.13 Grade 1, Mortise Locksets

ANSI A156.2 Grade 1, Bored and Preassembled Locks and Latches

ANSI A156.3 Exit Devices

ANSI A156.4 Door Controls (Closers)

ANSI A156.6 Architectural Door Trim

ANSI A156.8 Door Controls - Overhead Stops and Holder

ANSI A216.1 Sectional Overhead Type Doors (ANSI/NAGDM 102)

ANSI A39.1 Safety Requirements for Window Cleaning

ANSI A58.1 Building Code Requirements for Minimum Design Loads in Buildings and Other Structures

ANSI A92.1 Manually Propelled Mobile Ladder Stands and Scaffolds (Towers)

ANSI A92.2 Vehicle-Mounted Elevating and Rotating Aerial Device

ANSI A92.6 Self-Propelled Elevating Work Platforms

ANSI AWS F3.2 Ventilation Guide for Weld Fume

ANSI B1.1 Unified Inch Screw Threads (UN and UNR Thread Form)

ANSI B11.19 Performance Criteria for the Design, Construction, Care, and Operation of Safeguarding
When Referenced by the Other B11 Machine Tool Safety Standards

ANSI B114.1 Slow-moving Vehicle Identification Emblem (ASAE S 276.7)

ANSI B149.1 Dehumidifiers

ANSI B153.1 CAR B153.1 - Safety Requirements for the Construction, Care, And Use of Automotive
Lifts

ANSI B16.20 Metallic Gaskets for Pipe Flanges

ANSI B16.5 Pipe Flanges Flanged Fittings



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ANSI B16-21 Nonmetallic Flat Gaskets for Pipe Flanges

ANSI B18.22.1 Plain Washers

ANSI B30 Series Cranes

ANSI B30.21 (1994) Manually Operated Hoists (design specifications only)

ANSI B30.5 (1995) Mobile and Locomotive Cranes (design specifications only)

ANSI B30.9 (1992) Slings (equipment design specification only)

ANSI B31.2 Petroleum Refining Piping

ANSI B31.4 Liquid Petroleum Transportation Piping System

ANSI B38.1 Method of Testing for Household Refrigerators, Combination Refrigerator Freezers and Household Freezers

ANSI B46.1 Surface Texture, Surface Roughness, Waviness and Lay

ANSI B56.1 Safety Standard for Low Fit and High Fit Trucks

ANSI B56.6 Rough Terrain Forklift Trucks

ANSI B7.1 Safety Code for the Use, Care, and Protection of Abrasive Wheels

ANSI B93.114M Pneumatic Fluid Power - Systems Standard for Industrial Machinery

ANSI C 95.1 Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 300 KHZ to 100 GHZ

ANSI C136 Roadway Lighting

ANSI C16.13 Monochrome Television Broadcast Receivers

ANSI C2 National Electric Safety Code

ANSI C29.11 ANSI Standard for Composite Suspension Insulators for Overhead Transmission Lines - Tests

ANSI C57 Distribution, Power and Regulating Transformers



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ANSI C78.1 For Fluorescent Lamps--Rapid Start Types--Dimensional and Electrical Characteristics

ANSI C78.2 For Fluorescent Lamps--Preheat Start Types--Dimensional and Electrical Characteristics

ANSI C78.21 Incandescent Lamps--PAR and R Shapes

ANSI C78.3 For Fluorescent Lamps--Instant Start and Cold-Cathode Types--Dimensional and Electrical Characteristics

ANSI C78.375 For Fluorescent Lamps--Guide for Electrical Measurements

ANSI C79.1 Nomenclature for Glass Bulbs Intended for Use with Electric Lamps

ANSI C82 For Reference Ballasts for Fluorescent Lamps

ANSI C82.2 Fluorescent Lamp Ballasts--Methods of Measurement

ANSI C84.1 Electric Power Systems and Equipment-Voltage Ratings (60 Hertz)

ANSI C95.2-1982 American National Standard Radio Frequency Radiation Hazard Warning Symbol

ANSI CGAG-7.1 Commodity Specifications for Air

ANSI D12.1 Roadway Lighting (see IES RP8)

ANSI D6.1e Manual on Uniform Traffic Control Devices for Streets and Highways

ANSI G7.1 Commodity Specification for Air, Third Edition

ANSI MH 27.1 Specifications for Underhung Cranes and Monorail Systems.

ANSI N 42.37-2016 (Revision of ANSI N 42.37-2006 Training Requirements for Homeland Security Purposes Using Radiation Detection Instrumentation for Interdiction and Prevention

ANSI N101.6 Concrete Radiation Shields

ANSI N12.1 Warning Symbols-Fissile Material Symbol

ANSI N13.1 Guide for Sampling Airborne Radioactive Materials in Nuclear Facilities

ANSI N13.11 Dosimetry-Personnel Dosimetry Performance-Criteria for Testing



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ANSI N13.14 Internal Dosimetry Programs for Tritium Exposure—Minimum Requirements

ANSI N13.15 Radiation Detectors—Personnel Thermoluminescence Dosimetry Systems—Performance

ANSI N13.2 Guide to Administrative Practices in Radiation Monitoring

ANSI N13.27 Performance Requirements for Pocket-Sized Alarm Dosimeters and Alarm Rate Meters

ANSI N13.3 Dosimetry for Criticality Accidents

ANSI N13.30-1996 Performance Criteria for Radiobioassay

ANSI N13.41-1997 Criteria for Performing Multiple Dosimetry

ANSI N13.4-1983 Specifications of Portable X- or Gamma Radiation Survey Instruments

ANSI N13.5 Performance Specifications for Direct Reading and Indirect Reading Pocket Dosimeters for X and Gamma Radiation

ANSI N13.6 Practice for Occupational Radiation Exposure Record Systems

ANSI N13.7 Radiation Protection—Photographic Film Dosimeters—Criteria for Performance

ANSI N1342 Dosimetry

ANSI N14.1 Nuclear Materials—Uranium Hexafluoride—Packaging for Transport

ANSI N14.2 Commercial Vehicle Standards

ANSI N14.27-1993 Carrier and Shipper Responsibilities and Emergency Response Procedures for Highway Transportation Accidents

ANSI N14.29-1988 Guide for Writing Operating Manuals for Packaging

ANSI N14.30-1992 Design, Fabrication, and Maintenance of Semi-Trailers Employed in the Transport of Weight-Concentrated Radioactive Loads

ANSI N14.36- 2013 Measurement of Radiation Level and Surface Contamination for Packages and Conveyances

ANSI N14.5 Radioactive Materials—Leakage Tests on Packages for Shipment



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ANSI N14.6-1993 Radioactive Materials, Special Lifting Devices for Shipping Containers Weighing 10,000 pounds (4500 kg) or More

ANSI N14.7 Radioactive Materials - Guidance for Packaging Type A - Quantities of Radioactive Materials

ANSI N15.1 Classification of Unirradiated Uranium Scrap

ANSI N15.10 Nuclear Materials—Unirradiated Plutonium Scrap—Classification

ANSI N15.18 Nuclear Materials - Mass Calibration Techniques for Control

ANSI N15.19 Nuclear Material Control—Volume Calibration Techniques

ANSI N15.28-1991 Guide for Qualification and Certification of Safeguards Personnel

ANSI N15.28-91 Nuclear Materials Control - Guide for Qualification and Certification of Safeguards and Security Personnel

ANSI N15.36 Nuclear Materials—Nondestructive Assay Measurement Control and Assurance

ANSI N15.41 Nuclear Facilities—Derivation of Measurement Control Programs—General Principles

ANSI N15.51 Nuclear Materials Management—Measurement Control Program—Nuclear Materials Analytical Chemistry Laboratory

ANSI N15.54 Instrumentation—Radiometric Calorimeters Measurement Control Program

ANSI N15.56-2014 Nondestructive Assay Program, Non-Destructive Assay Measurements of Nuclear Material Holdup: General Provisions

ANSI N15.8-2009 Methods of Nuclear Material Control, Special Nuclear Material (SNM) Control and Accounting Systems for Nuclear Power Plants

ANSI N2.1 Radiation Symbol (Inactive)

ANSI N2.3-1979 Immediate Evacuation Signal for Use in Industrial Installations Where Radiation Exposures May Occur

ANSI N278.1-1975 (R 1992) Self-Operated and Power-Operated Safety-Related Valves Functional Specification Standard



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ANSI N317 Performance Criteria for Instrumentation Used for In-plant Plutonium Monitoring

ANSI N319 Personnel Neutron Dosimeters (Neutron Energies less than 20 MeV)

ANSI N320-1979 (R1993) Performance Specifications for Reactor Emergency Radiological Monitoring Instrumentation

ANSI N322 Inspection and Test Specifications for Direct and Indirect Reading Quartz Fiber Pocket Dosimeters

ANSI N323A Radiation Protection Instrumentation Test and Calibration, Portable Survey Instruments

ANSI N323A-1997 Radiation Protection Instrumentation Test and Calibrations

ANSI N323AB-2013 (Revision and Redesignation of ANSI N323A-1997 and ANSI N323B-2002) Radiation Protection Instrumentation Test and Calibration, Portable Survey Instruments

ANSI N323B-2003 Radiation Protection Instrumentation Test & Calibration, Portable Survey Instrumentation for Near Background Operation

ANSI N323C-2009 Radiation Protection Instrumentation Test & Calibration, Air Monitoring Instruments

ANSI N323D Installed Radiation Protection Instrumentation

ANSI N343 Internal Dosimetry for Mixed Fission and Activation Products

ANSI N4 2.17B Radiation Instrumentation Performance Specifications for Health Physics Instrumentation - Occupational Airborne Radioactivity Monitoring Instrumentation

ANSI N42.14 - 1999 (R 2004) American National Standard for Calibration and Usage of Germanium Spectrometers for the Measurement of Gamma-Ray Emission Rates of Radionuclides

ANSI N42.17A Performance Specifications for Health Physics Instrumentation - Portable Instrumentation for Use in Normal Environmental Conditions

ANSI N42.18 Specification and Performance of On-Site Instrumentation for Continuously Monitoring Radioactivity in Effluents

ANSI N42.22-1995 (R2002) Traceability of Radioactive Sources to the National Institute of Standards and Technology (NIST) and Associated Instrument Quality Control



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ANSI N42.23 American National Standard Measurement and Associated Instrumentation Quality Assurance for Radioassay Laboratories

ANSI N42.25-1997 Calibration & Usage of Alpha/Beta Proportional Counters

ANSI N42.32-2016 (Revision of ANSI N42.32-2006) American National Standard Performance Criteria for Alarming Personal Radiation Detectors for Homeland Security

ANSI N42.33-2006 (Rev of ANSI N42.33-2003) American National Standard for Portable Radiation Detection Instrumentation for Homeland Security

ANSI N42.34-2003 Performance Criteria for Hand-held Instruments for the Detection and Identification of Radionuclides

ANSI N42.34-2006 (Revision of ANSI N42.34-2003) Performance Criteria for Hand-held Instruments for the Detection and Identification of Radionuclides

ANSI N42.34-2015 (Revision of ANIS N42.34-2006) Performance Criteria for Hand-held Instruments for the Detection and Identification of Radionuclides

ANSI N42.35-2016 (Revision of ANSI N42.35-2006) Evaluation and Performance of Radiation Detection Portal Monitors for Use in Homeland Security

ANSI N42.37-2006 American National Standard for Training Requirements for Homeland Security Purposes Using Radiation Detection Instrumentation for Interdiction and Prevention

ANSI N42.38-2015 (Revision of ANSI N42.38-2006) IEEE N42.38 - Performance Criteria for Spectroscopy-Based Portal Monitors Used in Homeland Security

ANSI N42.43-2006, Performance Criteria for Mobile and Transportable Radiation Monitors Used for Homeland Security

ANSI N42.49A-2011 ; IEEE B42.49A Performance Criteria for Non-alarming Personal Emergency Radiation Detectors (PERDs) for Exposure Control

ANSI N42.53 Performance Criteria for Backpack-Based Radiation-Detection Systems Used for Homeland Security

ANSI N43.1 Radiological Safety in the Design and Operation of Particle Accelerators

ANSI N43.10 Safe Design and Use of Panoramic Wet Source Storage Gamma Irradiators (Category IV)



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ANSI N43.2 Radiation Safety for X-Ray Diffraction and Fluorescence Analysis Equipment

ANSI N43.3 General Radiation Safety—Installations Using Non-Medical X-Ray and Sealed Gamma-Ray Sources, Energies up to 10 MeV

ANSI N43.5 Radiological Safety Standard for the Design of Radiographic and Fluoroscopic Industrial X-Ray Equipment

ANSI N43.6 Sealed Radioactive Sources

ANSI N43.8 Classification of Industrial Ionizing Radiation Gaging Devices

ANSI N43.9 Gamma Radiography—Specifications for Design and Testing of Apparatus

ANSI N510 Testing of Nuclear Air-Cleaning Systems

ANSI N512 Protective Coatings (Paint) for the Nuclear Industry

ANSI N542 Sealed Radioactive Sources

ANSI N545 Thermoluminescence Dosimetry: Environmental Applications, Performance, Testing, and Specifications

ANSI N8.3-1979 Criticality Accident Alarm

ANSI OPEI B71.3 Snow Throwers - Safety Specifications

ANSI S1.4 Electroacoustics – Sound Level Meters – Part 1: Specifications (a nationally adopted international standard)

ANSI S3.19-1974 Laboratory Safety Supply

ANSI S3.34 Guide for the Measurement and Evaluation of Human Exposure to Vibration Transmitted to the Hand

ANSI S3.6 Specification for Audiometers

ANSI S82.01 Instrumentation

ANSI X3.135 Database Language SQL

ANSI X3.136 Serial Recorded Magnetic Tape Cartridge for Information Interchange



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ANSI X3.205 Helical-Scan Digital Computer Tape Cartridge 3.81 mm DATA/DAT, for Information Interchange

ANSI X3.40 Information Systems—Unrecorded Magnetic Tape for Information Exchange

ANSI X3.54 Recorded Magnetic Tape for Information Interchange 6250 bpi, Group Coded Recording

ANSI X3.55 Recorded Magnetic Tape for Information Interchange 1600 bpi, Phase Encoded

ANSI X3.85 One Half Inch Magnetic Tape Interchange Using a Self-Loading Cartridge

ANSI X4.16 Size and Placement of Security Badges (Inactive)

ANSI X9.17 Financial Institution Key Management

ANSI Y1.1 Abbreviations for Use on Drawings and in Text

ANSI Y14.1 Drawing Sheet Size and Format

ANSI Y14.15 General Electronic Diagrams

ANSI Y14.2 Surface Texture Symbols

ANSI Y14.5M Dimensioning and Tolerancing

ANSI Y32.14 Graphic Symbols for Logic Functions

ANSI Y32.16 Reference Designators (schematics and PCB)

ANSI Y32.2 Graphic Symbols for Electrical and Electronics Diagrams

ANSI Z1030 Power Tools

ANSI Z11.182 Method of Test for Smoke Density in the Flue Gases from Distillate Fuels reapproved 1971 (ASTM D2156-65(1975))

ANSI Z117.1 Safety Requirements for Working in Tanks and Other Confined Spaces

ANSI Z124.2-1995 Plastic Shower Receptors and Shower Stalls

ANSI Z133.1-2000 Arboricultural Operations - Pruning, Repairing, Maintaining, and Removing Trees, and Cutting Brush



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ANSI Z136.1-2000 Laser Eye Exam

ANSI Z136.1-2014 Safe Use of Lasers

ANSI Z136.2-1997 Safe Use of Optical Fiber Communication Systems Utilizing Laser Diode and LED Sources 10/01/97

ANSI Z21.10.1 Gas Automatic Storage Type Water Heaters

ANSI Z21.10.3 Gas Water Heaters, Volume III, Storage with Input Ratings Above 75,000 Btu's per Hour, Circulating and Instantaneous Water Heaters

ANSI Z21.11.1 Gas-Fired Room Heaters, Volume I, Vented Room Heaters

ANSI Z21.13 Gas-Fired Low-Pressure Steam and Hot Water Heating Boilers including addenda Z21.13a-69 and Z21.13b-94

ANSI Z21.17 Domestic Gas Conversion Burners Including Z21.17a-90

ANSI Z21.20 Automatic Gas Ignition Systems and Components

ANSI Z21.21 Automatic Valves for Gas Appliances (Including Z21.21a-89)

ANSI Z21.44 Gas-Fired Gravity and Fan Type Direct Vent Wall Furnaces

ANSI Z21.47 Gas-Fired Central Furnaces (including Z21.47a-88 and Z21.47b-89)

ANSI Z21.48 Gas-Fired Gravity and Fan Type Floor Furnaces

ANSI Z21.49 Gas-Fired Gravity and Fan Type Vented Wall Furnaces

ANSI Z21.56 Gas-Fired Pool Heaters (including addenda Z21.56a-96)

ANSI Z21.59 Gas-Fired High-Pressure Steam and Hot Water Heating Boilers

ANSI Z21.66 Automatic Vent Damper Devices for Use with Gas-Fired Appliances

ANSI Z21.67 Mechanically-Actuated Automatic Vent Damper Devices for Use with Gas-Fired Appliances

ANSI Z21.68 Thermally-Actuated Automatic Vent Damper Devices for Use with Gas-Fired Appliances



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ANSI Z21.71 Automatic Intermittent Pilot Ignition systems for Field Installation (including Z21.71a-85 and Z21.71b-89)

ANSI Z21.8 Installation of Domestic Gas Conversion Burners

ANSI Z223.1 National Fuel Code Including Appendices H, I, J, and K

ANSI Z224.1 Performance Evaluation Procedures for Household Washers

ANSI Z234.1 Room Air Conditioners

ANSI Z235.1 Appliance Humidifier Standard

ANSI Z236.8 Safe Use of Lasers in Research, Development, or Testing

ANSI Z308.1-2003 American National Standard for Minimum Requirements for Workplace First Aid Kits and Supplies

ANSI Z33.1 Installation of Blower and Exhaust Systems for Dust, Stock, and Vapor Removal or Conveying

ANSI Z358.1 Emergency Eyewash and Shower Equipment

ANSI Z359 Fall Protection

ANSI Z359.1-1992 Safety Requirements for Personal Fall Arrest Systems, Subsystems and Components

ANSI Z39.14 Writing Abstracts

ANSI Z39.18 Information Sciences—Scientific and Technical Reports—Organization, Preparation, and Production

ANSI Z39.29 Bibliographic References

ANSI Z39.32 Microfiche Headings

ANSI Z39.59 Electronic Manuscript Preparation and Markup

ANSI Z39.67 Computer Software Description

ANSI Z39.72 CD-ROM Standard Format for Submission of Data for Multimedia CD-ROM Mastering



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ANSI Z41.1 Personal Protection - Protective Footwear

ANSI Z41-1991 Personal Protection — Protective Footwear

ANSI Z49.1-2012 Safety in Welding, Cutting and Allied Processes, sections 4.3 and E4.3

ANSI Z535.1-1991 Environmental and Facility Safety Signs

ANSI Z535.2 Environmental and Facility Signs

ANSI Z535.3-1991 Criteria for Safety Symbols, 10/01/97

ANSI Z535.4 Product Safety Signs and Labels; a.k.a. NEMA Z535.4

ANSI Z535.5 Safety Tags and Barricade Tapes

ANSI Z540.1 Calibration Laboratories and Measuring and Test Equipment General Requirements

ANSI Z540-1-1994 Calibration - Calibration Laboratories and Measuring and Test Equipment - General Requirements

ANSI Z83.8 Gas Unit Heater and Gas-Fired Duct Furnaces

ANSI Z83.9 Gas-Fired Duct Furnaces (including addenda Z83.9a-92)

ANSI Z87.1 Practice for Occupational/Educational Eye and Face Protection Devices

ANSI Z87.1-1989 Practice for Occupational and Educational Eye and Face Protection

ANSI Z88.2 Respiratory Protection

ANSI Z88.6 Respiratory Protection - Respirator Use-Physical Qualifications for Personnel

ANSI Z89.1-1997 Industrial Head Protection

ANSI Z9.1 Practices for Ventilation and Operation of Open-Surface Tanks

ANSI Z9.2-1979 Fundamentals Governing the Design and Operation of Local Exhaust Systems

ANSI Z9.5-1992 Laboratory Ventilation

ANSI Z91.1 Performance Requirements for Oil-Powered Central Furnaces



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ANSI Z91.2 Performance Requirements for Automatic Pressure Oil Burners of the Mechanical Draft Type

ANSI Z96.1 Oil-Fired Central Furnaces

ANSI Z96.2 Oil Burners

ANSI Z96.3 Oil-Fired Boiler Assemblies

ANSI/ACI 349-85 Code Requirements for Nuclear Safety Related Concrete Structures (ACI 349-85) and Commentary (ACI 349R-85)

ANSI/AIHA Z9.10 Fundamentals Governing Design and Operation of Dilution Ventilation Systems in Industrial Occupancies

ANSI/AIHA Z9.11 Laboratory Decommissioning

ANSI/AIHA Z9.3 Spray Finishing Operations: Safety Code for Design, Construction and Ventilation

ANSI/AIHA Z9.4 Abrasive-Blasting Operations - Ventilation and Safe Practices for Fixed Location Enclosures

ANSI/AIHA Z9.5-1992 Laboratory Ventilation

ANSI/AIHA Z9.5-2003 Laboratory Ventilation

ANSI/AIHA Z9.6 Exhaust Systems for Grinding, Polishing, and Buffing

ANSI/AIHA Z9.7 Recirculation of Air from Industrial Process Exhaust Systems

ANSI/AIIM MS-32-1996 Standard Recommended Practice - Microrecording of Engineering Source Document on 35mm Microfilm

ANSI/AIIM MS-41-1996 Dimensions of Unitized Microfilm Carriers and Apertures (Aperture, Camera, Copy and Image Cards)

ANSI/AIIM MS-45-90 Recommended Practice for Inspection of Stored Silver Gelatin Microforms for Evidence of Deterioration

ANSI/AIM-BC1-1995 Uniform Symbology Specification

ANSI/AISC 341 Seismic Provisions for Structural Steel Buildings



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ANSI/AISC 360 Specification for Structural Steel Buildings

ANSI/AISC N690-1994 Specifications for the Design, Fabrication, and Erection of Steel Safety-Related Structures for Nuclear Facilities

ANSI/AMS-2.5 Onsite Meteorological Monitoring Program

ANSI/ANS 58.8 Time Response Design Criteria for Safety-Related Operator Actions

ANSI/ANS 8.22 Limiting and Control of Moderators

ANSI/ANS 8.23 Emergency Planning and Response

ANSI/ANS-1 Conduct of Critical Experiments

ANSI/ANS-10.3 Guidelines for the Documentation of Digital Computer Programs

ANSI/ANS-10.4 Verification and Validation of Scientific and Engineering Computer Programs for the Nuclear Industry

ANSI/ANS-11.13 Concrete Radiation Shields (replaced by ANS 11-1987) (Inactive)

ANSI/ANS-11.16 Design Guides for Radioactive Material Handling Facilities and Equipment

ANSI/ANS-14.1 Operation of Fast Pulse Reactors

ANSI/ANS-15.1 Development of Technical Specifications for Research Reactors

ANSI/ANS-15.11 Radiation Protection at Research Reactor Facilities

ANSI/ANS-15.12 Design Objectives for and Monitoring of Systems Controlling Research Reactor Effluents (incorporated into ANS 15.11) (Inactive)

ANSI/ANS-15.15 Criteria for the Reactor Safety System of Research Reactors

ANSI/ANS-15.16 Emergency Planning for Research Reactors

ANSI/ANS-15.18 Administrative Controls for Research Reactors

ANSI/ANS-15.2 Quality Control for Plate-Type Uranium-Aluminum Fuel Elements

ANSI/ANS-15.3 Records and Reports for Research Reactors (incorporated into ANS 15.1) (Inactive)



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ANSI/ANS-15.4 Selection and Training of Personnel for Research Reactors

ANSI/ANS-15.8 Quality Assurance Program Requirements for Research Reactors

ANSI/ANS-15-21 Standard Format and Content for Safety Analyses Reports for Small Research Reactors

ANSI/ANS-19.4 Guidelines for the Verification and Validation of Scientific and Engineering Computer Programs for the Nuclear Industry

ANSI/ANS-19.61 Startup Physics Tests for Pressurized Water Reactors

ANSI/ANS-2.17 Evaluation of Radionuclide Transport in Ground Water for Nuclear Power Sites

ANSI/ANS-2.2 Earthquake Instrumentation Criteria for Nuclear Power Plants

ANSI/ANS-2.26-2004 Categorization of nuclear facility structures, systems, and components for seismic design.

ANSI/ANS-2.27-2008 Criteria for investigations of nuclear facility sites for seismic hazard assessments.

ANSI/ANS-2.29-2008 Probabilistic seismic hazards analysis.

ANSI/ANS-2.3-2011 Estimating Tornado, Hurricane, And Extreme Straight-Line Wind Characteristics at Nuclear Facility Sites

ANSI/ANS-3.1 Selection, Qualification, and Training of Personnel for Nuclear Power Plants

ANSI/ANS-3.1-1987 Selection, Qualification and Training of Personnel for Nuclear Power Plants

ANSI/ANS-3.2 Quality Assurance Requirements for Operating Nuclear Power Plants

ANSI/ANS-3.2-1994 Administrative and Quality Assurance Requirements for Operating Nuclear Power Plants.

ANSI/ANS-3.4 Medical Certification and Monitoring of Personnel Requiring Operator Licenses for Nuclear Power Plants

ANSI/ANS-3.5 Nuclear Power Plant Simulators for Use in Operator Training

ANSI/ANS-3.7.2 Emergency Control Centers for Nuclear Power Plants (replaced by ANS 3.8.2)



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ANSI/ANS-4.5 Criteria for Accident Monitoring Functions in Light-Water-Cooled Reactors

ANSI/ANS-41.5-2012 Verification and Validation of Radiological Data for Use in Waste Management and Environmental Remediation

ANSI/ANS-5.1 Decay Heat Power in Light Water Reactors

ANSI/ANS-54.1 General Safety Design Criteria for a Liquid Metal Reactor Nuclear Power Plant

ANSI/ANS-54.2 Design Basis for Facilities for LMFBR Spent Fuel Storage in Liquid Metal Outside the Primary Coolant Boundary

ANSI/ANS-57.2 Design Requirements for Light Water Reactor Spent Fuel Storage Facilities at Light Water Reactor Plants

ANSI/ANS-57.3 Design Requirements for New Fuel Storage Facilities at Light Water Reactor Plants

ANSI/ANS-59.1 Nuclear Safety-Related Cooling Water Systems in Nuclear Power Plants

ANSI/ANS-59.2-1985 Safety Criteria for Nuclear Power Plants HVAC Systems Located Outside Primary Containment, American National Standards Institute

ANSI/ANS-59.3 Safety-Related Control Air Systems

ANSI/ANS-59.51 Fuel Oil Systems for Standby Diesel Generators

ANSI/ANS-6.4 Guidelines on Nuclear Analysis and Design of Concrete Radiation Shielding for Nuclear Power Plants

ANSI/ANS-6.4.2 Specification for Radiation Shielding Materials

ANSI/ANS-6.4.3 Gamma-Ray Attenuation Coefficients and Buildup Factors for Engineering Materials

ANSI/ANS-8.1 Nuclear Criticality Safety in Operations with Fissionable Materials Outside Reactors

ANSI/ANS-8.10 Criteria for Nuclear Criticality Safety Controls in Operations with Shielding and Confinement

ANSI/ANS-8.10-1983 Criteria for Nuclear Criticality Safety Controls in Operations with Shielding and Confinement



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ANSI/ANS-8.1-1998 Nuclear Criticality Safety in Operations with Fissionable Materials Outside Reactors

ANSI/ANS-8.1-1998, R2007 Nuclear Criticality Safety in Operations with Fissionable Materials Outside Reactors

ANSI/ANS-8.12 Nuclear Criticality Control and Safety of Plutonium-Uranium Fuel Mixtures Outside Reactors

ANSI/ANS-8.12-1987 Nuclear Criticality Control and Safety of Plutonium-Uranium Fuel Mixtures Outside Reactors

ANSI/ANS-8.14 Use of Soluble Neutron Absorbers in Nuclear Facilities Outside Reactors

ANSI/ANS-8.14-2004 Use of Soluble Neutron Absorbers in Nuclear Facilities Outside Reactors

ANSI/ANS-8.15 Nuclear Criticality Control of Special Actinide Elements

ANSI/ANS-8.15-1981 Nuclear Criticality Control of Special Actinide Elements

ANSI/ANS-8.17 Criticality Safety Criteria for the Handling, Storage and Transportation of LWR Fuel Outside Reactors

ANSI/ANS-8.17-2004 Criticality Safety Criteria for the Handling, Storage, and Transportation of LWR Fuel Outside Reactors

ANSI/ANS-8.19 Administrative Practices for Nuclear Criticality Safety

ANSI/ANS-8.19-2005 Administrative Practices for Nuclear Criticality Safety

ANSI/ANS-8.20 Nuclear Criticality Safety Training

ANSI/ANS-8.20-1991 Nuclear Criticality Safety Training

ANSI/ANS-8.21 Use of Fixed Neutron Absorbers in Nuclear Facilities Outside Reactors

ANSI/ANS-8.21-1995 Use of Fixed Neutron Absorbers in Nuclear Facilities Outside Reactors

ANSI/ANS-8.22 Nuclear Criticality Safety Based on Limiting and Controlling Moderators

ANSI/ANS-8.22-1997 Nuclear Criticality Safety Based on Limiting and Controlling Moderators



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ANSI/ANS-8.23 Nuclear Criticality Accident Emergency Planning and Response

ANSI/ANS-8.23-2007 Nuclear Criticality Accident Emergency Planning and Response

ANSI/ANS-8.24-2007 Validation of Neutron Transport Methods for Nuclear Criticality Safety Calculations

ANSI/ANS-8.26-2007 Criticality Safety Engineer Training and Qualification Program

ANSI/ANS-8.3 Criticality Accident Alarm System

ANSI/ANS-8.3-1997 Criticality Accident Alarm System

ANSI/ANS-8.5 Use of Borosilicate-Glass Raschig Rings as a Neutron Absorber in Solutions of Fissile Material

ANSI/ANS-8.5-1996 Use of Borosilicate-Glass Raschig Rings as a Neutron Absorber in Solutions of Fissile Material

ANSI/ANS-8.6 Safety in Conducting Subcritical Neutron-Multiplication Measurements in Situ

ANSI/ANS-8.6-1983 Safety in Conducting Subcritical Neutron-Multiplication Measurements in Situ

ANSI/ANS-8.7 Guide for Nuclear Criticality Safety in the Storage of Fissile Materials

ANSI/ANS-8.7-1998 Guide for Nuclear Criticality Safety in the Storage of Fissile Materials

ANSI/ANS-8.9 Nuclear Criticality Safety Criteria for Steel-Pipe Intersections Containing Aqueous Solutions of Fissile Material

ANSI/API-620-1998 Rules for Design and Construction of Large, Welded, Low-Pressure Storage Tanks

ANSI/ASME A17.2.1 Inspectors Manual for Electric Elevators

ANSI/ASME A17.2.2 Inspectors Manual for Hydraulic Elevators

ANSI/ASME A17.3 Existing Elevators and Escalators

ANSI/ASME A17.5 Elevator and Escalator Electrical Equipment

ANSI/ASME B 31 National Boiler Inspection (Piping) Code



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ANSI/ASME B16.5-1998 Pipe Flanges and Flanged Fittings (Includes Revision Service)

ANSI/ASME B18.18.1-1987 (R1994) Inspection and Quality Assurance for General Purpose Fasteners

ANSI/ASME B18.18.2M-1987 (R1993) Inspection and Quality Assurance for High-Volume Machine Assembly Fasteners

ANSI/ASME B18.18.3M-1987 (R1993) Inspection and Quality Assurance for Special Purpose Fasteners

ANSI/ASME B18.18.4M-1987 (R1993) Inspection and Quality Assurance for Fasteners for Highly Specialized Engineering Applications

ANSI/ASME B30.11-1993 Monorails and Underhung Cranes

ANSI/ASME B30.16-1993 Overhead Hoists (Underhung)

ANSI/ASME B30.17-1992 Overhead and gantry cranes (top running bridge, single girder, underhung hoists)

ANSI/ASME B30.18-1993 Stacker Cranes (Top or Under Running Bridge, Multiple Girder with Top or Under Running Trolley Hoist)

ANSI/ASME B30.2-1996 Overhead and gantry cranes, top running bridge single or multiple girder top running trolley hoist

ANSI/ASME B56.1-1993 Low-Lift and High-Lift Trucks

ANSI/ASME B73.1M-1991 (R Horizontal End Suction Centrifugal Pumps for Chemical Process

ANSI/ASME B73.2M-1991 Specifications for Vertical In-Line Centrifugal Pumps for Chemical Process

ANSI/ASME B96.1-1993 Welded Aluminum-Alloy Storage Tanks

ANSI/ASME HST-3M Performance Standard for Manually Lever Operated Chain Hoists.

ANSI/ASME HST-4M Performance Standard for Electric Wire Rope Hoists.

ANSI/ASME HST-5M Performance Standard for Air Chain Hoists.

ANSI/ASME HST-6M Performance Standard for Air Wire Rope Hoists.



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ANSI/ASME NOG-1-1998 Rules for Construction of Overhead and Gantry Cranes (Top Running Bridge, Multiple Girder)

ANSI/ASME Y32.4 Graphic Symbols for Plumbing Fixtures for Diagrams Used in Architecture and Building Construction

ANSI/ASQ Z1.13 Quality Guidelines for Research

ANSI/ASQ Z1.4-2003 Sampling Procedures and Tables for Inspection by Attributes

ANSI/ASQ Z1.9-2003 Sampling Procedures and Tables for Inspection by Variables for Percent Nonconforming

ANSI/ASQC Q10011-1-1994 Guidelines for Auditing Quality Systems—Auditing

ANSI/ASQC Q10011-2-1994 Guidelines for Auditing Quality Systems—Qualification Criteria for Quality Systems Auditors

ANSI/ASQC Q10011-3-1994 Guidelines for Auditing Quality Systems—Management of Audit Programs

ANSI/ASQC Q9001-1994 Quality Systems-Model for Quality Assessment in Design/Development, Production, Installation and Servicing

ANSI/ASQC Z1.4-1993 Sampling Procedures and Tables for Inspection by Attributes

ANSI/ASQZ1.13-1999 Quality Guidelines for Research

ANSI/ASSE Z244.1 Control of Hazardous Energy

ANSI/ASSE Z88.2-2015 Practices for Respiratory Protection, ANSI approved March 4, 2015

ANSI/ASTM C852-93 (R 1997) Standard Guide for Design Criteria for Plutonium Gloveboxes

ANSI/ASTM Specification A391 Specification for Alloy Steel Chain.

ANSI/ASTM Specification E-165 Standard Practice for Liquid Penetrant Inspection Method.

ANSI/ASTM Specification E-709 Standard Practice for Magnetic Particle Examination.

ANSI/AWS D14.1 Specification for Welding of Industrial and Mill Cranes and Other Material Handling Equipment.



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ANSI/AWWA C653 Disinfection of Water Treatment Plants

ANSI/AWWA C654 Disinfection of Wells

ANSI/BOMA Z65.1-2010 Office Buildings: Standard Methods of Measurement

ANSI/BOMA Z65.3-2009 Gross Area of a Building: Standard Methods of Measurement. Secondary Method

ANSI/CABO A117.1 Specifications for Making Buildings and Facilities Accessible to and Usable by Physically Handicapped People

ANSI/CGA G-7.1-1989 Commodity Specification

ANSI/EIA 748-B Standard for Earned Value Management Systems intent guide

ANSI/EIA-649 National Consensus Standard for Configuration Management (as mandated in the CRD for DOE O 413.3A, Program and Project Management for the Acquisition of Capital Assets)

ANSI/EIA-649-B Standard for Configuration Management

ANSI/EIA-748-B Earned Value Management Systems (EVMS)

ANSI/HFS 100-1988 Human Factors Engineering of Visual Display Terminal Workstations

ANSI/HI 14.6 Rotodynamic Pumps for Hydraulic Performance Acceptance Tests

ANSI/HI 9.6.4 Rotodynamic Pumps for Vibration Measurements and Allowable Values

ANSI/HI 9.8 Rotodynamic Pumps for Pump Intake Design

ANSI/HPS N13.11 Personnel Dosimetry Performance Criteria for Testin

ANSI/HPS N13.1-1999 Sampling and Monitoring Releases of Airborne Radioactive Substances from the Stacks and Ducts of Nuclear Facilities

ANSI/HPS N13.12-1999 Surface and Volume Radioactivity Standards for Clearance

ANSI/HPS N13.12-2013 Surface and Volume Radioactivity Standards for Clearance

ANSI/HPS N13.22-2013 Bioassay Programs for Uranium



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ANSI/HPS N13.30-2011 Performance Criteria for Radiobioassay

ANSI/HPS N13.32-2008 Performance Testing of Extremity Dosimeters

ANSI/HPS N13.32-Performance Testing of Extremity Dosimeters

ANSI/HPS N13.39-2001 Design of Internal Dosimetry Programs

ANSI/HPS N13.41 Criteria for Performing Multiple Dosimetry

ANSI/HPS N13.42-1997 Internal Dosimetry for Mixed Fission and Activation Products

ANSI/HPS N13.49-2001 Performance and Documentation of Radiological Surveys

ANSI/HPS N13.52-1999 (R2010) Personnel Neutron Dosimeters (Neutron Energies Less Than 20 MeV)

ANSI/HPS N13.54-2008 Fetal Radiation Dose Calculations

ANSI/HPS N43.14-2011 Radiation Safety for Active Interrogation Systems for Security Screening of Cargo, Energies up to 100 MEV

ANSI/IEEE 1008 Standard for Software Testing

ANSI/IEEE 1012-1986 IEEE Standard for Software Verification and Validation Plans

ANSI/IEEE 1028 Standard for Software Reviews

ANSI/IEEE 1042 Guide to Software Configuration Management

ANSI/IEEE 1050-1989 (R 1996) IEEE Guide for Instrumentation and Control Equipment Grounding in Generating Stations

ANSI/IEEE 1228 Standard for Software Safety Plans

ANSI/IEEE 323-1990 (R 1996) IEEE Standard for Qualifying Class 1E Equipment for Nuclear Power Generating Stations

ANSI/IEEE 334-1994 IEEE Standard for Qualifying Continuous Duty Class 1E Motors for Nuclear Power Generating Stations

ANSI/IEEE 338-1987 (R 1993) IEEE Standard for Criteria for the Periodic Surveillance Testing of Nuclear Power Generating Station Safety



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ANSI/IEEE 383-1974 (R 1992) IEEE Standard for Type Test of Class 1E Electric Cables, Field Splices, and Connections for Nuclear Power Generating Station

ANSI/IEEE 535-1986 (R 1994) IEEE Standard for Qualification of Class 1E Lead Storage Batteries for Nuclear Power Generating Stations

ANSI/IEEE 577-1976 (R 1993) IEEE Standard Requirements for Reliability Analysis in the Design and Operation of Safety Systems for Nuclear Power Generating Stations

ANSI/IEEE 628-1987 (R 1993) IEEE Standard Criteria for the Design, Installation, and Qualification of Raceway Systems for Class 1 E Circuits for Nuclear Power Generating Stations

ANSI/IEEE 649-1991 IEEE Standard for Qualifying Class 1E Motor Control Centers for Nuclear Power Generating Stations

ANSI/IEEE 650-1991 IEEE Standard for Qualification of Class 1E Static Battery Chargers and Inverters for Nuclear Power Generating Stations

ANSI/IEEE 7-4.3.2 Standard Criteria for Digital Computers in Safety Systems for Nuclear Power Generating Stations

ANSI/IEEE 830-1984 Recommended Practice for Software Requirements Specifications

ANSI/IEEE 833-1988 (R 1994) IEEE Recommended Practice for the Protection of Electric Equipment in Nuclear Power Generating Stations from Water Hazards

ANSI/IEEE 934-1987 (R 1993) Requirements for Replacement Parts for Class 1E Equipment in Nuclear Power Generating Stations

ANSI/IEEE 944-1986 (R 1996) IEEE Recommended Practice for the Application and Testing of Uninterruptible Power Supplies for Power Generating Stations

ANSI/IEEE 946-1993 IEEE Recommended Practice for the Design of DC Auxiliary Power Systems for Generating Stations

ANSI/IEEE C2-1997 National Electrical Safety Code 05/01/00

ANSI/IEEE C37 series Circuit Breakers, Switchgears, Substations, and Fuses

ANSI/IEEE C95.1 Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Magnetic Fields, 3kHz to 300 GHz



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ANSI/IEEE N323-1978 Radiation Protection Instrumentation Test and Calibration

ANSI/IEEE N42.18-1980 Specification and Performance of On-Site Instrumentation for Continuously Monitoring Radioactivity in Effluents

ANSI/IEEE Std 379-1988 Application of the Single-Failure Criterion to Nuclear Power Generating Station Safety Systems

ANSI/IEEE Std 519-1981 Recommended Practice and Requirements for Harmonic Control in Electric Power Systems

ANSI/IEEE Std 583-1982 IEEE Standard Modular Instrumentation and Digital Interface System (CAMAC) (Computer Automated Measurement and Control)

ANSI/IES RP7 Lighting Industrial Facilities, ANSI approved

ANSI/IES RP7-2001 Industrial Lighting

ANSI/IES RP-8-14 Roadway Lighting

ANSI/ISA SP75.01 Control Valve Sizing Equations

ANSI/ISEA 101 American National Standard for Limited-Use and Disposal Coveralls - Size and Labeling Requirements

ANSI/ISEA 107 American National Standard for High Visibility Safety Apparel and Headwear

ANSI/ISEA Z358.1 Emergency Eyewash and Shower Equipment

ANSI/ISO 14001 Environmental Management Systems - Requirements with guidance for use

ANSI/ISO 14001-2004 Environmental Management System — Specification with guidance for use

ANSI/ISO/ASQ 9001 Quality Management Systems - Requirements

ANSI/ISO/ASQ Q9001:2000 Quality Management Systems: Requirements

ANSI/ISO/ASQC Q10012-1-1992 Measurement Management Systems - Requirements for Measurement Processes and Measuring Equipment (E-Standard)

ANSI/ISO/ASQC-14001-1996 Quality Assurance Requirements for Measuring Equipment, Part 1: Meteorological Confirmation System for Measuring Equipment



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ANSI/ISO/ASQC-14004-1996 Environmental Management Systems - Specification with Guidance for Use

ANSI/ISO/ASQC-14010-1996 Environmental Management Systems - General Guidelines on Principles, Systems, and Supporting Techniques

ANSI/ISO/ASQC-14011-1996 Guidelines for Environmental Auditing - General Principles

ANSI/ISO/ASQC-14012-1996 Guidelines for Environmental Auditing - Audit Procedures - Auditing of Environmental Management Systems

ANSI/ISO/ASQC-Q9001-1994 Guidelines for Environmental Auditing - Qualification Criteria for Environmental Auditors

ANSI/ISO/ASQC-Q9002-1994 Quality Systems -Model for Quality Assurance in Design/Development, Production, Installation, and Servicing.

ANSI/ISO/ASQC-Q9004-1994 Quality Systems -Model for Quality Assurance in Production and Installation.

ANSI/ISO/IEC 17025 General requirements for the competence of testing and calibration laboratories

ANSI/ITSDF 856.1 Safety Standard for Powered Industrial Trucks - Low Lift and High Lift Trucks

ANSI/ITSDF 856.6 Rough Terrain Fork Lift Trucks

ANSI/ITSDF B56.1 Safety Standard for Powered Industrial Trucks – Low Lift and High Lift Trucks.

ANSI/ITSDF B56.10 Safety Standard for Manually Propelled High Lift Industrial Trucks

ANSI/ITSDF B56.11.4 Hook-Type Forks and Fork Carriers for Powered Industrial Forklift Trucks

ANSI/ITSDF B56.5 Guided Industrial Vehicles.

ANSI/ITSDF B56.9 Safety Standard for Operator Controlled Industrial Tow Tractors

ANSI/NB 371 Accreditation of Owner-User Inspection Organizations (OUIO)

ANSI/NB-23 National Board Inspection Code (NBIC)

ANSI/NCSL Z540.3 Calibration Laboratories and Measuring and Test Equipment - General Requirements



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ANSI/NCSL Z540-1-1994 American National Standard for Calibration - Calibration Laboratories and Measuring and Test Equipment - General Requirements

ANSI/NCSL Z540-1-1997 Calibration Laboratories and Measuring and Test Equipment, General Requirements

ANSI/NCSL Z540-2-1997 Expressing Uncertainty- US Guide to the Expression of Uncertainty in Measurement

ANSI/NEMA-CC 1 Electric Power Connection for Substations

ANSI/NETA ATS American National Standard for Acceptance Testing Specifications for Electrical Power Equipment and Systems

ANSI/NETA MTS Standard for Maintenance Testing Specifications for Electrical Power Distribution Equipment and Systems

ANSI/NFPA 58 Liquefied Petroleum Gas Code

ANSI/NFPA 70E Electrical Safety Requirements for Employee Work Places, 1995

ANSI/PIMAIT 9.2 - 1998 American National Standard for Imaging Materials - Photographic Processed Films, Plates, and Papers - Filing Enclosures and Storage Containers

ANSI/RIA R15.06 American National Standard for Industrial Robots and Robot Systems – Safety Requirements

ANSI/SAE A 92.2 American National Standard for Vehicle-Mounted Elevating and Rotating Aerial Devices

ANSI/SIA A92.2 (1990) American National Standard for Vehicle-Mounted Elevating and Rotating Aerial Devices (equipment design specification only)

ANSI/UL 558 Internal Combustion Engine Powered Industrial Trucks

ANSI/UL 583 Electric Battery Powered Industrial Trucks

ANSI/UL 726 Oil-Fired Boiler Assemblies, 7th Edition

ANSI136.1 Safe Use of Lasers

ANSI-C29.1 American National Standard Test Methods for Electrical Power Insulators



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ANSI-C29.10 American National Standard - Wet Process Porcelain Insulators Indoor Apparatus Type.

ANSI-C29.11 American National Standard for Composite Suspension Insulators for Overhead Transmission Lines - Tests

ANSI-C29.12 American National Standard for Insulators - Composite Suspension Type

ANSI-C29.13 American National Standard for Insulators - Composite Distribution Deadend Type

ANSI-C29.17 American National Standard for Insulators - Composite - Line Post Type

ANSI-C29.2 American National Standard for Insulators - Wet Process Porcelain and Toughened Glass-Suspension Type

ANSI-C29.3 American National Standard - Wet Process Porcelain Insulators Spool Type

ANSI-C29.4 American National Standard- Wet Process Porcelain Insulators Strain Type

ANSI-C37.42 American National Standard Specifications for High Voltage Expulsion Type Distribution Class Fuses, Cutouts, Fuse Disconnecting Switches, and Fuse Links

ANSI-SJI-CJ COSP-1.0 Code of Standard Practice for Composite Steel Joists

ANSI-SJI-CJ-1.0 Standard Specifications for Composite Steel Joists, CJ-Series

ANSI-SJI-JG-1.1 Standard Specification for Joist Girders

ANSI-SJI-K-1.1 Standard Specification for Longspan Steel Joist, LH-Series and Deep Longspan Steel Joists, DLH-Series

ANSI-SJI-LH/DLH-1.1 Standard Specification for Longspan Steel Joist, LH-Series and Deep Longspan Steel Joists, DLH-Series

ANSI-Z535.6 ANSI Standard for Product Safety Information in Product Manuals, Instructions, and Other Collateral Materials

APHA Methods of Air Sampling and Analysis

API 12P Specification for Fiberglass Reinforced Plastic Tanks

API 1631 Interior Lining and Periodic Inspection of Underground Storage Tanks



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

API 1632 Cathodic Protection of Underground Petroleum Storage Tanks and Piping Systems

API 5 (2005) Service Station Safety, Accident Prevention Manual

API 610 Centrifugal Pumps for Petroleum, Petrochemical and Natural Gas Industries

API 620 Design and Construction of Large, Welded, Low-Pressure Storage Tanks

API 650 Welded Steel Tanks for Oil Storage, Eighth Edition

API 674 Positive Displacement Pumps - Reciprocating

API 675 Positive Displacement Pumps - Controlled Volume

API PR 98 California State Petroleum Safety Order on Drilling Safety (Waiver that applies in California)

API Pub 1615 Installation of Underground Petroleum Storage Systems

API RP 579 Fitness for Service

API RP 750 Management of Process Hazards, American Petroleum Institute Recommended Practice

API RP-54 Safety for Gas and Oil Well Drilling

AREA Manual for Railway Engineering (Fixed Properties)

ARI 1010 Drinking-Fountains and Self-Contained Mechanically-Refrigerated Drinking Water Coolers

ARI 210 Standard for Unitary Air Conditioning Equipment

ARI 240 Standard for Air-Source Unitary Heat Pump Equipment

ARI 280 Standard for Central Forced-Air Electric Heating Equipment

ARI 310/380 Packaged Terminal Air-Conditioners and Heat Pumps

ARI 320 Standard for Water Source Heat Pumps

ARI 325 Ground Water-Source Heat Pumps

ARI 330 Ground-Source Closed-Loop Heat Pumps

ARI 340/360 Commercial and Industrial Unitary Air-Conditioning and Heat Pump Units



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ARI 365 Commercial and Industrial Unitary Air-Conditioning Condensing Units

ARI 410 Forced-Circulation Air-Cooling and Air-Heating Coils

ARI 430 Central-Station Air-Handling Units

ARI 450 Remote Type Water-Cooled Refrigerant Condensers

ARI 460 Remote Mechanical-Draft Air-Cooled Refrigerant Condensers

ARI 470 Desuperheater/Water Heater

ARI 520 Positive Displacement Refrigerant Compressors, Compressor Units and Condensing Units

ARI 550 Centrifugal or Rotary Screw Water Chilling Packages

ARI 560 Absorption Water-Chilling and Water Heating Packages

ARI 590 Positive Displacement Compressor Water-Chilling Packages

ARI 610 Standard for Central System Humidifiers

ARI 850 Commercial and Industrial Air Filter Equipment

ARMA 800 Sealant Selection and Installation (Inactive)

ARMA Guide to Preparing Built-up Roofing Specifications

ARMA Recommended Performance Criteria for Roofing Membrane using Polymer Modified Bituminates Products (Inactive)

ARMA Residential Asphalt Roofing Manual

AS AND10387 Rev 6 Drill Sizes And Drilled Hole Tolerances - Twist

ASA S3.5 Methods of Calculation of the Speech Intelligibility Index

ASCE 11-99 Guideline for Structural Condition Assessment of Existing Buildings

ASCE 1-82 N-725 Guideline for Design and Analysis of Nuclear Safety Related Earth Structures

ASCE 31-03 Seismic Evaluation of Existing Buildings



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ASCE 37 Design and Construction of Sanitary and Storm Sewers

ASCE 38-2 Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data

ASCE 4-16 Seismic Analysis of Safety-Related Nuclear Structures

ASCE 43 Seismic Design Criteria for Structures, Systems, and Components in Nuclear Facilities

ASCE 43-05 Seismic Design Criteria for Structures, Systems, and Components in Nuclear Facilities

ASCE 48-11 Design of Steel Transmission Pole Structures

ASCE 4-98 Analysis of Safety-Related Nuclear Structures and Commentary

ASCE 52 Guide for Design of Steel Transmission Towers

ASCE 58 Structural Analysis and Design of Nuclear Plant Facilities

ASCE 63 Structural Plastic Design Manual

ASCE 7 Minimum Design Loads for Buildings and Other Structures

ASCE 7-10 SEISMIC LOADS Seismic Loads: Guide to the Seismic Load Provisions of ASCE 7-10

ASCE 7-10 SNOW LOADS Snow Loads: guide to the Snow Load Provisions of ASCE 7-16

ASCE 72 Design of Steel Transmission Pole Structures

ASCE 8 Specification for the Design of Cold-Formed Stainless-Steel Structural Members

ASCE MOP 113 Substation Structure Design Guide

ASCE/SEI 43-05 Seismic Design Criteria for Structures, Systems, and Components in Nuclear Facilities

ASCE/SEI 7-10 Minimum Design Loads for Buildings and Other Structures

ASHRAE 100 Energy Conservation in Existing Buildings

ASHRAE 103 Methods of Testing for Annual Fuel Utilization Efficiency of Residential Central Furnaces and Boilers with exceptions

ASHRAE 110 Method of Testing Performance of Laboratory Fume Hoods



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ASHRAE 111 Practices for Measurement, Testing, Adjusting, and Balancing of Building Heating, Ventilation, Air-Conditioning, and Refrigeration Systems

ASHRAE 15 & 34 Safety Standard for Refrigeration Systems

ASHRAE 15 Safety Code for Mechanical Refrigeration

ASHRAE 154 Ventilation for Commercial Cooking Operations

ASHRAE 16 Method of Testing for Rating Room Air Conditioners

ASHRAE 170 ADD M Ventilation of Health Care Facilities

ASHRAE 180 Standard Practice for Inspection and Maintenance of Commercial Building HVAC Systems

ASHRAE 188 Legionellosis: Risk Management for Building Water Systems

ASHRAE 20 Methods of Testing for Rating Remote Mechanical Draft Air Cooled Refrigerant Condensers

ASHRAE 24 Methods of Testing for Rating Liquid Coolers

ASHRAE 34 ADD AN Designation and Safety Classification of Refrigerants

ASHRAE 37 Method of Testing for Rating Unitary Air Conditioning and Heat Pump Equipment

ASHRAE 51 Laboratory Methods of Testing Fans for Rating

ASHRAE 52.1-1992 Gravimetric and Dust-Spot Procedures for Testing Air Cleaning Devices Used in General Ventilation for Removing Particulate Matter

ASHRAE 52.2 Method of Testing General Ventilation Air-Cleaning Devices for Removal Efficiency by Particle Size

ASHRAE 55 Thermal Environmental Conditions for Human Occupancy

ASHRAE 62 Ventilation for Acceptable Indoor Air Quality

ASHRAE 62.1 Ventilation for Acceptable Indoor Air Quality

ASHRAE 62.2 Ventilation and Acceptable Indoor Air Quality Residential Buildings



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ASHRAE 90 Energy Conservation in New Building Design

ASHRAE 90.1-2013 I-P Energy Standard for Buildings Except Low-Rise Residential Buildings

ASHRAE 90577 Thermal Guidelines for Data Processing Environments

ASHRAE 93 Methods of Testing to Determine the Thermal Performance of Solar Collectors

ASHRAE DA-07-051 An Experimental Investigation of Response Times for Duct-Mounted Relative Humidity Transmitters

ASHRAE Design of Smoke Management Systems

ASHRAE Fundamentals IP Handbook 2013 ASHRAE Handbook Fundamentals - I-P Edition

ASHRAE Fundamentals SI Handbook 2013 ASHRAE Handbook Fundamentals - SI Edition

ASHRAE GRP 158 Cooling and Heating Load Calculation Manual

ASHRAE Guideline 12 ERTA Minimizing the Risk of Legionellosis Associated with Building Water Systems

ASHRAE Handbook Fundamentals (Inch-Pound Edition)

ASHRAE HVAC Applications

ASHRAE HVAC Fundamentals

ASHRAE HVAC Systems and Equipment

ASHRAE Refrigeration

ASHRAE Refrigeration IP Handbook 2014 ASHRAE Handbook Refrigeration

ASHRAE Simplified Energy Analysis using the BIN Method

ASHRAE/ESNA 90.1 Energy Efficient Design of New Buildings Except Low - Rise Residential Buildings , including Addenda 90.16 - 92, 90.1d - 92, 90.1e - 92 ,90.1g - 93, and 90.1i-93

ASHREA 90.1 Users Manual Energy Standard for Buildings Except Low-Rise Residential Buildings

ASHREA 90.1-2013 SI Energy Standard for Buildings Except Low-Rise Residential Buildings



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ASME A13.1 Scheme for Identification of Piping Systems

ASME A17.1 Safety Code for Elevators and Escalators

ASME A17.1a-2005 Safety Code for Elevators and Escalators

ASME A17.2 Guide for Inspection of Elevators, Escalators, and Moving Walks

ASME A17.3-2002 Safety Code for Existing Elevators and Escalators

ASME AG-1 Code on Nuclear Air and Gas Treatment

ASME AG-i-1 997 Code on Nuclear Air and Gas Treatment, American Society of Mechanical Engineers

ASME AG-i-2012 Code on Nuclear Air and Gas Treatment

ASME B 56.1-1993 Low-Lift and High-Lift Trucks

ASME B1.1 Unified Inch Screw Threads

ASME B1.3 Screw Thread Gaging Systems for Acceptability: Inch and Metric Screw Threads

ASME B107.300 Torque Instruments

ASME B16 Fittings, Flanges and Valves

ASME B16.20 Metallic Gaskets for Pipe Flanges Ring-Joint, Spiral-Wound, and Jacketed

ASME B16.22 Wrought Copper and Copper Alloy Solder-Joint Pressure Fittings

ASME B16.26 Cast Copper Alloy Fittings for Flared Copper Tubes

ASME B16.29 Wrought Copper and Wrought Copper Alloy Solder-Joint Drainage Fittings – DWV

ASME B16.5 Pipe Flanges and Flanged Fittings NPS 1/2 Through NPS 24 Metric/Inch Standard

ASME B16.9 Factory-Made Wrought Butt welding Fittings

ASME B18.2.1 (RL) Square, Hex, Heavy Hex, and Askew Head Bolts and Hex, Heavy Hex, Hex Flange, Lobed Head, and Lag Screws (Inch Series)

ASME B18.2.1 Washers: Helical Spring-Lock, Tooth Lock, and Plain Washers



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ASME B18.2.3.5M Metric Hex Bolts Errata

ASME B18.21.1 Washers: Helical Spring-Lock, Tooth Lock, and Plain Washers (Inch Series)

ASME B18.3.5M Metric Hex Bolts - Errata - May 1981

ASME B18.31.3 Threaded Rods (Inch Series)

ASME B18.6.7M Metric Machine Screws

ASME B20.1 Safety Standard for Conveyors and Related Equipment

ASME B30.1 Jacks

ASME B30.10 Hooks

ASME B30.11 Monorails and Underhung Cranes

ASME B30.12 Handling Loads Suspended from Rotorcraft.

ASME B30.14 Side Boom Tractors.

ASME B30.16 Overhead Hoists (Underhung).

ASME B30.17 Overhead and Gantry Cranes (Top Running Bridge, Single Girder, Underhung Hoist)

ASME B30.19 CABLEWAYS

ASME B30.2 Overhead and Gantry Cranes (Top Running Bridge, Single or Multiple Girder, Top Running Trolley Hoist)

ASME B30.20 Below-the-Hook Lifting Devices

ASME B30.21 Manually Lever Operated Hoists.

ASME B30.22 Articulating Boom Cranes.

ASME B30.23 Personnel Lifting Systems

ASME B30.26 Rigging Hardware

ASME B30.27 Material Placement Systems



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ASME B30.5 Mobile and Locomotive Cranes

ASME B30.6 Derricks.

ASME B30.7 Base-Mounted Drum Hoists.

ASME B30.9 Slings

ASME B31.1 Power Piping

ASME B31.11 Slurry Transportation Piping Systems

ASME B31.1-2016 Power Piping

ASME B31.2 Fuel Gas Piping

ASME B31.3 Process Piping

ASME B31.3-2014 Process Piping

ASME B31.4 Pipeline Transportation Systems for Liquid Hydrocarbons and Other Liquids

ASME B31.4-2016 Pipeline Transportation Systems for Liquids and Slurries

ASME B31.5 Refrigeration Piping:

ASME B31.5-2016 Refrigeration Piping and Heat Transfer Components

ASME B31.8 Gas Transmission & Distribution Piping:

ASME B31.8-2016 Gas Transmission and Distribution Piping Systems

ASME B31.8S Managing System Integrity of Gas Pipelines

ASME B31.9 Building Service Piping

ASME B31G Manual for Determining Remaining Strength of Corroded Pipelines

ASME B36.19 Stainless Steel Pipe

ASME B4.1 Preferred Limits and Fits for Cylindrical Parts

ASME B56.11.4 Forks and Fork Carriers for Powered Industrial Fork Lift Trucks, Hook Type.



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ASME B56.6 (1993) Rough Terrain Fork Lift Trucks (equipment design specification only)

ASME B56.7 Industrial Crane Trucks. Special Notice 6-88. ASME B73.1M Specification for Horizontal End Suction Centrifugal Pumps for Chemical Process

ASME B73.2M Specification for Vertical In-Line Centrifugal Pumps for Chemical Process

ASME B73.5M Specification for Thermoplastic and Thermoset Polymer Material Horizontal End Suction Centrifugal Pumps for Chemical Process

ASME B89 Dimensional Metrology - C&S Tools

ASME B89.3.4 Axes of Rotation: Methods for Specifying and Testing

ASME B89.4.10 Methods for Performance Evaluation of Coordinate Measuring Systems Software

ASME B89.4.11 Probes & Changers

ASME B89.4.15 Dynamic Performance CMM

ASME B89.4.21 CMM Performance in Realistic Environment

ASME B89.6.2 Temperature and Humidity Environment for Dimensional Measurement

ASME B89.7.3.3 Guidelines for Assessing the Reliability of Dimensional Measurement Uncertainty Statements

ASME B96.1 Welded Aluminum-Alloy Storage Tanks

ASME BPVC Boiler and Pressure Vessel Code

ASME BPVC I-2015, Section I – Rules for Construction of Power Boilers

ASME BPVC Section II – Materials, Part A-Ferrous Material Specifications (Beginning to SA-450)

ASME BPVC Section II – Materials, Part A-Ferrous Material Specifications (SA-451 to End)

ASME BPVC Section II – Materials, Part B-Nonferrous Material Specifications

ASME BPVC Section II – Materials, Part C-Specification for Welding Rods, Electrodes, and Filler Metals

ASME BPVC Section II – Materials, Part D-Properties (Customary)



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ASME BPVC Section II – Materials, Part D-Properties (Metric)

ASME BPVC Section III – Rules for Construction of Nuclear Facility Components, Division I-Subsection NB, Class 1 Components

ASME BPVC Section III – Rules for Construction of Nuclear Facility Components, Division I-Subsection NC, Class 2 Components

ASME BPVC Section III – Rules for Construction of Nuclear Facility Components, Division I-Subsection ND, Class 3 Components

ASME BPVC Section III – Rules for Construction of Nuclear Facility Components, Division I-Subsection NE, Class MC Components

ASME BPVC Section III – Rules for Construction of Nuclear Facility Components, Division I-Subsection NF, Supports

ASME BPVC Section III – Rules for Construction of Nuclear Facility Components, Division I-Subsection NG, Core Support Structures

ASME BPVC Section III – Rules for Construction of Nuclear Facility Components, Division I-Subsection NH, Class 1 Components in Elevated Temperature Service

ASME BPVC Section III – Rules for Construction of Nuclear Facility Components, Division 2, Code for Concrete Containments

ASME BPVC Section III – Rules for Construction of Nuclear Facility Components, Division 3, Containment for Transportation and Storage of Spent Nuclear Fuels and High-Level Radioactive Material and Waste

ASME BPVC Section III – Rules for Construction of Nuclear Facility Components, Division 5, High Temperature Reactors

ASME BPVC Section III – Rules for Construction of Nuclear Facility Components, Appendices;

ASME BPVC Section III – Rules for Construction of Nuclear Facility Components, Subsection NCA, General Requirements for Division 1 and Division 2

ASME BPVC Section IV – Rules for Construction of Heating Boilers



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ASME BPVC Section IX – Rules Welding, Brazing and Fusing Qualifications, Qualification Standard for Welding, Brazing, and Fusing Procedures; Welders; Braziers; and Welding, Brazing, and Fusing Operators

ASME BPVC Section V – Nondestructive Examination

ASME BPVC Section VI – Recommended Rules for the Care and Operation of Heating Boilers

ASME BPVC Section VII – Recommended Guidelines for the care of Power Boilers

ASME BPVC Section VIII – Rules for Construction of Pressure Vessels, Division 1

ASME BPVC Section VIII—Rules for Construction of Pressure Vessels, Division 2, Alternative Rules

ASME BPVC Section VIII—Rules for Construction of Pressure Vessels, Division 3, Alternative Rules for Construction of High-Pressure Vessels

ASME BPVC Section X, Fiber-Reinforced Plastic Pressure Vessels

ASME BPVC Section XI, Rules for Inservice Inspection of Nuclear Power Plant Components

ASME BPVC Section XII, Rules for Construction and Continued Service of Transport Tanks

ASME BTH-1 Design of Below-the-Hook Lifting Devices

ASME F00230 Boiler and Pressure Vessel Code

ASME FAP-I-1990 Quality Assurance Program Requirements for Fastener Manufacturers and Distributors

ASME HRT-1 Rules for Hoisting, Rigging, and Transporting Equipment for Nuclear Facilities

ASME HST-1 Performance Standard for Electric Chain Hoists

ASME HST-1M Performance Standard for Electric Chain Hoists.

ASME HST-2 Performance Standard for Hand Chain Manually Operated Chain Hoists

ASME HST-2M Performance Standard for Hand Chain Manually Operated Chain Hoists.

ASME HST-3 Performance Standard for Manually Lever Operated Chain Hoists



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ASME HST-4 Performance Standard for Overhead Electric Wire Rope Hoists

ASME HST-5 Performance Standard for Air Chain Hoists

ASME HST-6 Performance Standard for Air Wire Rope Hoists

ASME N278.1 Self-Operated and Power-Operated Safety-Related Valves Functional Specification Standard, Reactor Plants and Their Maintenance

ASME N509 Nuclear Power Plant Air Cleaning Units and Components, 1989

ASME N509 Nuclear Power Plant Air-Cleaning Units and Components

ASME N510 Testing of Nuclear Air Cleaning Systems

ASME N511-2007 In-Service Testing of Nuclear Air Treatment, Heating, Ventilating, and Air Conditioning Systems

ASME NQA – 3 Quality Assurance Program Requirements for the Collection of Scientific and Technical Information for Site Characterization of High – Level Nuclear Waste Repositories

ASME NQA-1 Quality Assurance Program Requirements for Nuclear Facilities

ASME NQA-1-1989 Quality Assurance Program Requirements for Nuclear Facilities

ASME NQA-1-1994, Part 2.15 Quality Assurance Requirements for Hoisting, Rigging, and Transporting of Items for Nuclear Power Plants

ASME NQA-1-1997 Quality Assurance Program Requirements for Nuclear Facilities, Part 1, Requirements and Part 3, Nonmandatory Appendices

ASME NQA-1-2000 Quality Assurance Requirements for Nuclear Applications, Parts 1,2, and 3

ASME NQA-1A-1995 Quality Assurance Requirements for Nuclear Facility Applications, ASME NQA-1-1994 and ASME NQA-1a-1995 Addenda, 1-19-96

ASME NQA-1B Quality Assurance Requirements for Nuclear Facility Applications

ASME NQA-2 Quality Assurance Requirements for Nuclear Facility Applications

ASME NQA-2A Quality Assurance Program Requirements for Nuclear Facility Applications



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ASME NQA-2A-1990 addenda, Part 2.7 Quality Assurance Requirements of Computer Software for Nuclear Facilities

ASME PALD Portable Automotive Lifting Devices.

ASME PASE Safety Standard for Portable Automotive Service Equipment

ASME PTC 25 Pressure Relief Devices ASME PTC 4.1 Steam Generating Units

ASME QME-1 Qualification of Active Mechanical Equipment Used in Nuclear Facilities

ASME RA-S Standard for Level 1/ Large Early Release Frequency Probabilistic Risk Assessment for Nuclear Power Plant Applications

ASME RA-SB Addenda to Standard for Level 1/ Large Early Release Frequency Probabilistic Risk Assessment for Nuclear Power Plant Applications

ASME STS-1 Steel Stacks

ASME Y14.1 Decimal Inch Drawing Sheet Size and Format

ASME Y14.100M Engineering Drawing Practices

ASME Y14.13M Mechanical Spring Representation

ASME Y14.15 Electrical and Electronic Diagrams

ASME Y14.18M Optical Parts

ASME Y14.2 Line Conventions and Lettering

ASME Y14.24M Types and Applications of Engineering Drawings

ASME Y14.2M Line Conventions and Lettering

ASME Y14.34M Associated Lists

ASME Y14.35M Revision of Engineering Drawings and Associated Documents

ASME Y14.36M Surface Texture Symbols

ASME Y14.38-1999 Abbreviations and Acronyms



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ASME Y14.3M Multiview and Sectional View Drawings

ASME Y14.4M Pictorial Drawing

ASME Y14.5.1M Mathematical Definition of Dimensioning and Tolerancing Principles

ASME Y14.5.2 Certification of Geometric Dimensioning and Tolerancing Professionals

ASME Y14.5M Dimensioning and Tolerancing

ASME Y14.6 Screw Thread Representation

ASME Y14.7.1 Gear Drawing Standards - Part 1 for Spur, Helical, Double Helical and Rack

ASME Y14.7.2 Gear and Spline Drawing Standards Part 2 - Bevel and Hypoid Gears

ASME Y14.8M Castings and Forgings

ASME Y32.18 Symbols for Mechanical and Acoustical Elements as Used in Schematic Diagrams

ASME Y32.2.3 Graphical Symbols for Pipe Fittings, Valves and Piping

ASME Y32.2.4 Graphical Symbols for Heating, Ventilating, and Air Conditioning

ASME Y32.2.6 Graphic Symbols for Heat-Power Apparatus

ASME Y32.7 Graphic Symbols for Railroad Maps and Profiles

ASME/ANS RA-Sb-2013, Addenda to ASME/ANS RA-S-2008 Standard for Level 1/Large Early Release Frequency Probabilistic Risk Assessment for Nuclear Power Plant Applications

ASME-NQA-1-2004 Quality Assurance Requirements for Nuclear Facility Applications

ASME-NQA-1-2008 Quality Assurance Requirements for Nuclear Facility Applications

ASNT SNT-TC-1A Recommended Practice December 1992 Edition - Qualification of Nondestructive Testing Personnel

ASNT SNT-TC-1A Supplement D Personnel Qualification and Certification in Nondestructive Testing

ASNT SNT-TC-1A, Supplement B Magnetic Particle Method



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ASQ 9001 Quality Management Systems

ASQ C1 Specification of General Requirements for a Quality Program

ASQ Energy Division, 1982 Quality Surveillance Guidelines and Quality Surveillance Handbook, ASQC Quality Press

ASQ QE19011S Guidelines for quality and/or environmental management systems auditing – U.S. Version with supplemental guidance added - T853E

ASQ Z1.13 Quality Guidelines for Research

ASQC E4 Specifications and Guidelines for Quality Systems for Environmental Data Collection and Environmental Technology Programs

ASSE/SAFE A10.48 Criteria for Safety Practices with the Construction, Demolition, Modification and Maintenance of Communication Structures American National Standard for Construction and Demolition Operations

ASSE/SAFE A10.8 Scaffolding Safety Requirements

ASSE/SAFE A1264.2 Provision of Slip Resistance on Walking/Working Surfaces

ASSE/SAFE Z244.1 The Control of Hazardous Energy Lockout, Tagout and Alternative Methods

ASSE/SAFE Z88.2 American National Standard Practices for Respiratory Protection

Association, 2004

ASTM 153 Zinc Coating (Hot-Dip) on Iron and Steel Hardware

ASTM 2413 Standard Specification for Performance Requirements for Foot Protection

ASTM 2472 Standard spec for Sulphur Hexafluoride

ASTM 646 Steel Drill Screws for the Application of Gypsum Board to Light-Gage Steel Studs

ASTM 665 Standard Specification for Mineral-Fiber Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing

ASTM A0354-17E01 Standard Specification for Quenched and Tempered Alloy Steel Bolts, Studs, and Other Externally Threaded Fasteners



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ASTM A0370-17A Standard Test Methods and Definitions for Mechanical Testing of Steel Products

ASTM A0370-68 Standard Methods and Definitions for Mechanical Testing of Steel Products

ASTM A1010/A1010M Standard Specification for Higher-Strength Martensitic Stainless-Steel Plate, Sheet, and Strip

ASTM A1011/A1011M Standard Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, and Ultra-High Strength

ASTM A1018/A1018M Standard Specification for Steel, Sheet and Strip, Heavy-Thickness Coils, Hot-Rolled, Carbon, Commercial, Drawing, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, and Ultra-High Strength

ASTM A1036 Standard Guide for Measuring Power Frequency Magnetic Properties of Flat-Rolled Electrical Steels Using Small Single Sheet Testers

ASTM A1040 Standard Guide for Specifying Harmonized Standard Grade Compositions for Wrought Carbon, Low-Alloy, and Alloy Steels

ASTM A105/A105M Standard Specification for Carbon Steel Forgings for Piping Applications

ASTM A106/A106M Standard Specification for Seamless Carbon Steel Pipe for High-Temperature Service

ASTM A108 Steel Bars, Carbon, Cold-Finished, Standard Quality

ASTM A120 Pipe, Steel Black and Hot-Dipped Zinc-Coated (Galvanized) Welded and Seamless, for Ordinary Uses

ASTM A121 Zinc-Coated (Galvanized) Steel Barbed Wire

ASTM A123 Zinc (Hot-Galvanized) Coatings on Products Fabricated from Rolled, Pressed, and Forged Steel Shapes, Plates, Bars, and Strip

ASTM A126 Standard Specification for Gray Iron Castings for Valves, Flanges, and Pipe Fittings

ASTM A137.1 Standard Specification for Ceramic Tile

ASTM A176 Standard Specification for Stainless and Heat-Resisting Chromium Steel Plate, Sheet, and Strip



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ASTM A185 Welded Steel Wire Fabric for Concrete Reinforcement

ASTM A193 Specification for Alloy-Steel and Stainless-Steel Bolting Materials for High-Temperature Service

ASTM A194 Standard Specification for Carbon and Alloy Steel Nuts for Bolts for High Pressure or High Temperature Service, or Both

ASTM A240 Standard Specification for Chromium and Chromium - Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications

ASTM A262 Standard Practices for Detecting Susceptibility to Intergranular Attack in Austenitic Stainless Steels

ASTM A268 Standard Specification for Seamless and Welded Ferritic and Martensitic Stainless-Steel Tubing for General Service

ASTM A269 Standard Specification for Seamless and Welded Austenitic Stainless-Steel Tubing for General Service

ASTM A29/A29M Standard Specification for General Requirements for Steel Bars, Carbon and Alloy, Hot-Wrought

ASTM A307 – 14e1 Standard Specification for Carbon Steel Bolts, Studs, and Threaded Rod 60 000 PSI Tensile Strength

ASTM A307 Specification for Carbon Steel Externally Threaded Standard Fasteners

ASTM A312 Standard Specification for Seamless and Austenitic Stainless-Steel Pipe

ASTM A325-89 Specification for High-Strength Bolts for Structural Steel Joints

ASTM A36 Specification for Structural Steel

ASTM A366 Steel Sheet, Carbon, Cold-Rolled, Commercial Quality

ASTM A370 Standard Test Methods and Definitions for Mechanical Testing of Steel Products

ASTM A380 Standard Practice for Cleaning, Descaling, and Passivation of Stainless-Steel Parts, Equipment, and Systems

ASTM A385 Standard Practice for Providing High Quality Zinc Coatings (Hot-Dip)



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ASTM A392 Zinc-Coated Steel Chain-Link Fence Fabric

ASTM A403 Standard Specification for Wrought Austenitic Stainless-Steel Piping Fittings

ASTM A446 Steel Sheet, Zinc-Coated (Galvanized) by the Hot-Dip Process, Structural (Physical) Quality

ASTM A449 Standard Specification for Hex Cap Screws, Bolts, and Studs, Steel, Heat Treated, 120/105/90 ksi Minimum Tensile Strength, General Use

ASTM A496 Deformed Steel Wire for Concrete Reinforcement

ASTM A500 Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes

ASTM A501 Hot-Formed Welded and Seamless Carbon Steel Structural Tubing

ASTM A513 Specification for Electric-Resistance-Welded Carbon and Alloy Steel Mechanical Tubing

ASTM A525 Steel Sheet, Zinc-Coated (Galvanized) by the Hot-Dip Process

ASTM A53 Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated Welded and Seamless

ASTM A563 Specification for Carbon Steel Nuts

ASTM A564 Standard Specification for Carbon and Alloy Steel Nuts

ASTM A572 High-Strength Low-Alloy Columbium-Vanadium Steels of Structural Quality

ASTM A574 Standard Specification for Alloy Steel Socket-Head Cap Screws

ASTM A615 Deformed and Plain Billet-Steel Bars for Concrete Reinforcement

ASTM A666-15 Standard Specification for Annealed or Cold-Worked Austenitic Stainless-Steel Sheet, Strip, Plate, and Flat Bar

ASTM A677-00(2016) Standard Specification for Steel Tie Plates, Low-Carbon and High-Carbon-Hot-Worked

ASTM A733-16 Standard Specification for Welded and Seamless Carbon Steel and Austenitic Stainless-Steel Pipe Nipples



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ASTM A74 Standard Specification for Cast Iron Soil Pipe and Fittings

ASTM A746 Standard Specification for Ductile Gravity Sewer Pipe

ASTM A753-08(2013) Standard Specification for Wrought Nickel-Iron Soft Magnetic Alloys (UNS K94490, K94840, N14076, N14080)

ASTM A763 Standard Practices for Detecting Susceptibility to Intergranular Attack in Ferritic Stainless Steels

ASTM A82 Cold Drawn Steel Wire for Concrete Reinforcement

ASTM A888 Standard Specification for Hubless Cast Iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste, and Vent Piping Applications

ASTM A967 Standard Specification for Chemical Passivation Treatments for Stainless Steel Parts

ASTM B1 Standard Specification for Hard-Drawn Copper Wire

ASTM B152 Standard Specification for Copper Sheet, Strip, Plate and Rolled Bar

ASTM B187M-11 Standard Specification for Copper, Bus Bar, Rod, and Shapes and General-Purpose Rod, Bar, and Shapes

ASTM B188 Standard Specification for Seamless Copper Bus Pipe and Tube

ASTM B209 Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate

ASTM B210 Specification for Aluminum and Aluminum-Alloy Drawn Seamless Tubes

ASTM B211 Standard Specification for Aluminum and Aluminum-Alloy Rolled or Cold Finished Bar, Rod, and Wire

ASTM B221 Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles and Tubes

ASTM B241 Specification for Aluminum and Aluminum-Alloy Seamless Pipe and Seamless Extruded Tube

ASTM B251 Standard Specification for General Requirements for Wrought Seamless Copper and Copper-Alloy Tube



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ASTM B281-88(2013) Standard Practice for Preparation of Copper and Copper-Base Alloys for Electroplating and Conversion Coatings

ASTM B29 Standard Specification for Refined Lead

ASTM B308 Standard Specification for Aluminum-Alloy 6061-T6 Standard Structural Profiles

ASTM B32 Solder Metal

ASTM B329 Standard Test Method for Apparent Density of Metal Powders and Compounds Using the Scott Volumeter

ASTM B366 Standard Specification for Factory-Made Wrought Nickel and Nickel Alloy Fittings

ASTM B435 Standard Specification for UNS N06002, UNS N06230, UNS N12160, and UNS R30556 Plate, Sheet, and Strip

ASTM B443 Standard Specification for Nickel-Chromium-Molybdenum-Columbium Alloy (UNS N06625) and Nickel-Chromium-Molybdenum-Silicon Alloy (UNS N06219) Plate, Sheet, and Strip

ASTM B446 Standard Specification for Nickel-Chromium-Molybdenum-Columbium Alloy (UNSO6625)

ASTM B462 Standard Specification for Forged or Rolled Alloy Pipe Flanges, Forged Fittings, and Valves and Parts for Corrosive High-Temperature Service

ASTM B486 Specification for Paste Solder (Withdrawn 1990)

ASTM B488 – 11 Standard Specification for Electrodeposited Coatings of Gold for Engineering Uses

ASTM B564 Standard Specification for Nickel Alloy Forgings

ASTM B619 Standard Specification for Welded Nickel and Nickel-Cobalt Alloy Pipe

ASTM B665-08R12 Standard Guide for Metallographic Sample Preparation of Cemented Tungsten Carbides

ASTM B675 Standard Specification for UNS N08367 Welded Pipe

ASTM B68 Standard Specification for Seamless Copper Tube, Bright Annealed

ASTM B700-08(2014) Standard Specification for Electrodeposited Coatings of Silver for Engineering Use



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ASTM B75 Standard Specification for Seamless Copper Tube

ASTM B8 Standard Specification for Concrete-Lay Stranded Copper Conductors

ASTM B811-13R17 Standard Specification for Wrought Zirconium Alloy Seamless Tubes for Nuclear Reactor Fuel Cladding

ASTM B813 Standard Specification for Liquid and Paste Fluxes for Soldering of Copper and Copper Alloy Tube

ASTM B819 Standard Specification for Seamless Copper Tube for Medical Gas Systems

ASTM B828 Standard Practice for Making Capillary Joints by Soldering of Copper and Copper Alloy Tube and Fittings

ASTM B88 Standard Specification for Seamless Copper Water Tube

ASTM C1 068-03 Standard Guide for Qualification of Measurement Methods by a Laboratory within the Nuclear Industry

ASTM C1 156-03 Standard Guide for Establishing Calibration for a Measurement Method Used to Analyze Nuclear Fuel Cycle Materials

ASTM C1 309-97 (2003) Standard Practice for Performance Evaluation of In-Plant Walk-Through Metal Detectors

ASTM C1 592-09 Standard Guide for Nondestructive Assay Measurements

ASTM C1009 Standard Guide for Establishing a QA Program for Analytical Chemistry Laboratories within the Nuclear Industry

ASTM C1019 Standard Test Method for Sampling and Testing Grout

ASTM C1030 Standard Test Method for Determination of Plutonium Isotopic Composition by Gamma-Ray Spectrometry

ASTM C1036 Standard Specification for Flat Glass

ASTM C1064 Standard Test Method for Temperature of Freshly Mixed Hydraulic-Cement Concrete

ASTM C1068 Standard Guide for the Qualification of Measurement Methods by a Laboratory Within the Nuclear Industry



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ASTM C1077 Standard Practice for Agencies Testing Concrete and Concrete Aggregates for Use in Construction and Criteria for Testing Agency Evaluation

ASTM C109 Compressive Strength of Hydraulic Cement Mortars (Using 2-in. Or 50-mm Cube Specimens)

ASTM C1108 Test Method for Plutonium by Controlled-Potential Coulometry

ASTM C1112 Guide for Application of Radiation Monitors to the Control and Physical Security of Special Nuclear Material

ASTM C1112-99 Standard Guide for Application of Radiation Monitors to the Control and Physical Security of Special Nuclear Material

ASTM C1128 Standard Guide for the Preparation of Working Reference Materials for Use in the Analysis of Nuclear Fuel Cycle Materials

ASTM C1133 Standard Test Method for the Nondestructive Assay of Special Nuclear Material in Low - Density Scrap and Waste by Segmented Passive Gamma-Ray Scanning

ASTM C1156 Standard Guide for Establishing Calibration for a Measurement Method Used to Analyze Nuclear Fuel Cycle Materials

ASTM C1168 Standard Practice for Preparation and Dissolution of Plutonium Materials for Analysis

ASTM C1169 Guide for Laboratory Evaluation of Automatic Pedestrian SNM Monitor Performance

ASTM C1169-97 Standard Guide for Laboratory Evaluation of Automatic Pedestrian SNM Monitor Performance

ASTM C117 Standard Test Method for Materials Finer than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing

ASTM C1189 Guide to Procedures for Calibrating Automatic Pedestrian SNM Monitor

ASTM C1189-02 Standard Guide to Procedures for Calibrating Automatic Pedestrian SNM Monitors

ASTM C1196 Test Method of In Situ Compressive Stress Within Solid Unit Masonry Estimated Using Flatjack Measurements

ASTM C1204 Test Method for Uranium in the Presence of Plutonium by Iron (II) Reduction in Phosphoric Acid Followed by Chromium (VI) Titration



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ASTM C1210 Standard Guide for Establishing a Measurement System Quality Control Program for Analytical Chemistry Laboratories Within the Nuclear Industry

ASTM C1215-92 Standard Guide for Preparing and Interpreting Precision and Bias Statements in Test Method Standards Used in the Nuclear Industry

ASTM C1227 Standard Specification for Precast Concrete Septic Tanks

ASTM C1231 Standard Practice for Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders

ASTM C1236 Guide for In-Plant Performance Evaluation of Automatic Vehicle SNM Monitors

ASTM C1236-99 Standard Guide for In-Plant Performance Evaluation of Automatic Vehicle SNM Monitors

ASTM C1237 Guide to In-Plant Performance Evaluation of Hand-Held SNM Monitors

ASTM C1237-99 Standard Guide to In-Plant Performance Evaluation of Hand-Held SNM Monitors

ASTM C1267 Test Method for Uranium by Iron (II) Reduction in Phosphoric Acid Followed by Chromium (VI) Titration in the Presence of Vanadium

ASTM C1268 Standard Test Method for Quantitative Determination of Americium 241 in Plutonium by Gamma-Ray Spectrometry

ASTM C127 Standard Test Method for Density, Relative Density (Specific Gravity), and Absorption of Coarse Aggregate

ASTM C1277 Standard Specification for Shielded Couplings Joining Hubless Cast Iron Soil Pipe Fittings

ASTM C128 Standard Test Method for Density, Relative Density (Specific Gravity), and Absorption of Fine Aggregate

ASTM C1284 Standard Practice for the Electrodeposition of the Actinides for Alpha Spectrometry

ASTM C1297 Standard Guide for the Qualification of Laboratory Analysts for the Analysis of Nuclear Fuel Cycle Materials

ASTM C1346 Standard Practice for Dissolution of Uranium Hexafluoride from P-10 Tubes

ASTM C1347 Standard Practice for Preparation and Dissolution of Uranium Materials for Analysis



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ASTM C136 Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates

ASTM C1363-11 Standard Test Method for Thermal Performance of Building Materials and Envelope Assemblies by Means of a Hot Box Apparatus

ASTM C1371-15 Standard Test Method for Determination of Emittance of Materials Near Room Temperature Using Portable Emissometers

ASTM C138 Standard Test Method for Density (Unit Weight), Yield, and Air Content (Gravimetric) of Concrete

ASTM C1411 Standard Practice for Ion Exchange Separation of Uranium and Plutonium Isotopes Prior to Isotopic Analysis

ASTM C1413 Standard Test Method for Isotopic Analysis of Hydrolyzed Uranium Hexafluoride and Uranyl Nitrate Solutions by Thermal Ionization Mass Spectrometry

ASTM C1415 Standard Test Method for Pu-238 by Alpha Spectrometry

ASTM C142 Standard Test Method for Clay Lumps and Friable Particles in Aggregates

ASTM C143 Slump of Portland Cement Concrete

ASTM C144 Aggregate for Masonry Mortar

ASTM C1455 — 07 Standard Guide for Nondestructive Assay of Special Nuclear Material Holdup Using Gamma-Ray Spectroscopic Methods

ASTM C1456-00R11 Standard Test Method for the Determination of Uranium by Ignition and the Oxygen to Uranium (O/U) Atomic Ratio of Nuclear Grade Uranium Dioxide Powders and Pellets

ASTM C1490-04 Standard Guide for the Selection, Training and Qualification of Nondestructive Assay (NDA) Personnel

ASTM C150 Specification for Portland Cement (Rev. A)

ASTM C1533-15 Standard Guide for General Design Considerations for Hot Cell Equipment

ASTM C157 Standard Test Method for Length Change of Hardened Hydraulic-Cement Mortar and Concrete

ASTM C1608-17 Standard Test Method for Chemical Shrinkage of Hydraulic Cement Paste



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ASTM C1672 Standard Test Method for Determination of Uranium or Plutonium Isotopic Composition or Concentration by the Total Evaporation Method Using a Thermal Ionization Mass Spectrometer

ASTM C1682-17 Standard Guide for Characterization of Spent Nuclear Fuel in Support of Interim Storage, Transportation and Geologic Repository Disposal

ASTM C172 Sampling Fresh Cement

ASTM C177 Standard Test Method for Steady State Thermal Transmission Properties by Means of the Guard Hot Plate

ASTM C192 Standard Practice for Making and Curing Concrete Test Specimens in the Laboratory

ASTM C206 Finished Hydrated Lime

ASTM C207 Hydrated Lime for Masonry Purposes

ASTM C208 Insulating Board (Cellulosic Fiber), Structural and Decorative (reapproved 1982)

ASTM C215 – 14 Standard Test Method for Fundamental Transverse, Longitudinal, and Torsional Resonant Frequencies of Concrete Specimens

ASTM C231 Standard Test Method for Air Content of Freshly Mixed Concrete by the Pressure Method

ASTM C236 Standard Test Method for Thermal Conductance and Transmittance of Built-Up Sections by Means of the Guarded Hot Box

ASTM C26.10 Guide, Total Measurement Uncertainty of Nondestructive Assay Measurements

ASTM C260 Air-Entraining Admixtures for Concrete

ASTM C270 Standard Specification for Mortar for Unit Masonry

ASTM C272 Test for Water Absorption of Core Materials for Structural Sandwich Construction

ASTM C29/C29M Standard Test Method for Bulk Density ("Unit Weight") and Voids in Aggregate

ASTM C309 Standard Specification for Liquid Membrane-Forming Compounds for Curing Concrete

ASTM C31 Making and Curing Concrete Test Specimens in the Field

ASTM C33 Concrete Aggregates



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ASTM C355 Test for Water Vapor Transmission of Thick Materials

ASTM C36 Gypsum Wallboard

ASTM C39 Compressive Strength of Cylindrical Concrete Specimens

ASTM C40 Standard Test Method for Organic Impurities

ASTM C404 Aggregates for Masonry Grout

ASTM C423 Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method

ASTM C442 Gypsum Backing Board and Coreboard

ASTM C470 Standard Specification for Molds for Forming Concrete Test Cylinders Vertically

ASTM C475 Joint Compound and Joint Tape for Gypsum Wallboard

ASTM C476 Grout for Reinforced and Non-reinforced Masonry

ASTM C478 Precast Manholes

ASTM C478-12 American Society for Testing and Materials Standard Specification for Precast Reinforced Concrete Manhole Sections, Part II, Section 16, Steps and Ladders

ASTM C478-12 Standard Specification for Precast Reinforced Concrete Manhole Sections

ASTM C490/490M Standard Practice for Use of Apparatus for the Determination of Length Change of Hardened Cement Paste, Mortar, and Concrete

ASTM C494 Chemical Admixtures for Concrete

ASTM C509 Standard Specification for Elastomeric Cellular Preformed Gasket and Sealing Material

ASTM C511 Standard Specification for Mixing Rooms, Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the Testing of Hydraulic Cements and Concretes

ASTM C516 Standard Specification for Vermiculite Loose Fill Thermal Insulation

ASTM C518 Standard Test Method for Steady State Thermal Transmission Properties by Means of Heat Flow Meter



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ASTM C520 Standard Method for Density of Granular Loose-Fill Insulation (reapproved 1975)

ASTM C523 Light Reflections of Acoustical Materials by the Integrating Sphere Reflectometer

ASTM C531-00R12 Standard Test Method for Linear Shrinkage and Coefficient of Thermal Expansion of Chemical-Resistant Mortars, Grouts, Monolithic Surfacing's, and Polymer Concretes

ASTM C533 Standard Specification for Calcium Silicate Block and Pipe Thermal Insulation

ASTM C534 Standard Specification for Preformed Flexible Elastomeric Cellular Thermal Insulation in Sheet and Tubular Form

ASTM C547 Standard Specification for Mineral Fiber Pipe Insulation

ASTM C549 Standard Specification for Perlite Loose Fill Insulation (reapproved 1986)

ASTM C55 Standard Specification for Concrete Building Brick

ASTM C552 Standard Specification for Cellular Glass Thermal Insulation

ASTM C553 Standard Specification for Mineral Fiber Blanket Thermal Insulation for Commercial and Industrial Applications

ASTM C566 Standard Test Method for Total Evaporable Moisture Content of Aggregate by Drying

ASTM C570 Specification for Oil and Resin Based Caulking Compound for Building Construction

ASTM C578 Standard Specification for Preformed, Block-Type Cellular Polystyrene Thermal Insulation

ASTM C591 Standard Specification for Unfaced Preformed Rigid Cellular Polyisocyanurate Thermal Insulation

ASTM C592 Standard Specification for Mineral Fiber Blanket Insulation and Blanket-Type Pipe Insulation (Metal-Mesh Covered) (Industrial Type)

ASTM C610 Standard Specification for Molded Expanded Perlite Block and Pipe Thermal Insulation

ASTM C612 Standard Specification for Mineral Fiber Block and Board Thermal Insulation

ASTM C617 Standard Practice for Capping Cylindrical Concrete Specimens



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ASTM C618 Standard Specification for Fly Ash and Raw or Calcinated Natural Pozzolan of Use as a Mineral Admixture in Portland Cement Concrete

ASTM C62 Standard Specification for Building Brick (Solid Masonry Units Made from Clay or Shale)

ASTM C630 Water-Resistant Gypsum Backing Board

ASTM C635 Standard Specification for the Manufacture, Performance, and Testing of Metal Suspension Systems for Acoustical Tile and for Lay-In Panels

ASTM C636 Standard Recommended Practice for Installation of Metal Ceiling Systems for Acoustical Tile and for Lay-In Panels

ASTM C645 Non-Load Bearing Axial Steel Studs, Runners Track, and Rigid Furring Channels for Screw Application of Gypsum Board

ASTM C660 Standard Practices for Production and Preparation of Gray Iron Castings for Porcelain Enameling (Reapproved 1989)

ASTM C696 Standard Methods for Chemical, Mass Spectrometric, and Spectrochemical Analysis of Nuclear-Grade Uranium Dioxide Powders and Pellets

ASTM C702 Standard Practice for Reducing Samples of Aggregate to Testing Size

ASTM C71 Standard Terminology Relating to Refractories

ASTM C720 Specification for Spray-Applied Fibrous Thermal Insulation for Elevated Temperature (Discontinued 1999)

ASTM C726 Standard Specification for Mineral Fiber and Roof Insulating Board

ASTM C728 Standard Specification for Perlite Thermal Insulation Board

ASTM C730 Standard Test Method for Knoop Indentation Hardness of Glass

ASTM C755 Standard Recommended Practice for Selection for Vapor Barriers for Thermal Insulation

ASTM C761 Standard Test Methods for Chemical, Mass Spectrometric, Spectrochemical, Nuclear, and Radiochemical Analysis of UF₆

ASTM C764 Standard Specification for Mineral Fiber Loose-Fill Thermal Insulation



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ASTM C769-15 Standard Test Method for Sonic Velocity in Manufactured Carbon and Graphite Materials for Use in Obtaining an Approximate Value of Young's Modulus

ASTM C790 Standard Recommended Practice for use of Latex Sealing Compounds

ASTM C797 Standard Recommended Practices and Terminology for Use of Oil- and Resin-Based Putty and Glazing Compounds

ASTM C804 Standard Recommended Practices for Use of Solvent Release Type Sealants

ASTM C806 Standard Test Method for Restrained Expansion of Expansive Cement Mortar

ASTM C834 Specification for Latex Sealing Compounds (reapproved 1986)

ASTM C840 Standard Specification for Application and Finishing of Gypsum Board

ASTM C845 Standard Specification for Expansive Hydraulic Cement

ASTM C852 Standard Guide for Design Criteria for Plutonium Gloveboxes

ASTM C892 Standard Specification for High-Temperature Fiber Blanket Thermal Insulation

ASTM C90 Standard Specification for Load-Bearing Concrete Masonry Units

ASTM C920 REV A Standard Specification for Elastomeric Joint Sealants

ASTM C920 Standard Specification for Elastomeric Joint Sealants

ASTM C939 Standard Test Method for Flow of Grout for Preplaced-Aggregate Concrete (Flow Cone Method)

ASTM C94 Ready-Mixed Concrete

ASTM C940 Standard Test Method for Expansion and Bleeding of Freshly Mixed Grouts for Preplaced-Aggregate Concrete in the Laboratory

ASTM C971 Guide for Selection and Application of Insulation Systems for Heating, Ventilating, and Air Conditioning Duct Work (Discontinued 1997)

ASTM C976 Standard Test Method for Thermal Performance of Building Assemblies by Means of a Calibrated Hot Box



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ASTM C984 Specification for Perlite Board and Rigid Cellular Polyisocyanurate Composite Roof Insulation (Discontinued 1997)

ASTM C984 Standard Method of Test for Apparent Density of Rigid Cellular Plastics (reapproved 1975)

ASTM C986 Standard Guide for Developing Training Programs in the Nuclear Fuel Cycle

ASTM C993 Guide for In-Plant Performance Evaluation of Automatic Pedestrian SNM Monitors

ASTM C993-97 Standard Guide for In-Plant Performance Evaluation of Automatic Pedestrian SNM Monitors

ASTM D1005-95R13 Standard Test Method for Measurement of Dry-Film Thickness of Organic Coatings Using Micrometers

ASTM D1048 Specifications for Rubber Insulating Blankets

ASTM D1051 2008 Standard Specification for Rubber Insulating Sleeves

ASTM D1051-1087 Standard Specification for Rubber Insulating Sleeves

ASTM D1140 Standard Test Methods for Amount of Material in Soils Finer than No. 200 (75- μ m) Sieve

ASTM D1193-06(2011) Standard Specification for Reagent Water

ASTM D120 2008 Standard Specification for Rubber Insulating Gloves

ASTM D120 Standard Specification for Rubber Insulating Gloves

ASTM D120-14A Standard Specification for Rubber Insulating Gloves

ASTM D1212-91R13 Standard Test Methods for Measurement of Wet Film Thickness of Organic Coatings

ASTM D1408-14 Standard Specification for Rubber Insulating Blankets

ASTM D149 Standard Test Method for Dielectric Breakdown Voltage and Dielectric Strength of Solid Electrical Insulating Materials at Commercial Power Frequencies

ASTM D1505 Standard Test Method for Density of Plastics by the Density-Gradient Technique



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ASTM D1556 Standard Test Method for Density and Unit Weight of Soil in Place by Sand-Cone Method

ASTM D1557 Moisture-Density Relations of Soils and Soil-Aggregate Mixtures, using 10-lb. (4.54-kg) Rammer and 18-in. (457-mm) Drop

ASTM D1586 Standard Method for Penetration Test and Split-Barrel Sampling of Soils

ASTM D1603 Standard Test Method of Carbon Black Content in Olefin Plastics

ASTM D1708 Standard Test Method for Tensile Properties of Plastics by Use of Microtensile Specimens

ASTM D178 Specifications for Rubber Insulating Matting

ASTM D1785 Standard Specification for Poly (Vinyl Chloride) (PVC) Plastic Pipe, Schedules 40, 80, and 120

ASTM D18 Specifications for Rubber Insulating Matting

ASTM D1914-95 Conversion Units & Factors Relating to Sampling and Analysis of Atmospheres

ASTM D2000 Standard Classification System for Rubber Products in Automotive Applications-SAE J200

ASTM D2113 Standard Practice for Diamond Core Drilling for Site Investigation

ASTM D2156 Method of Tests for Smoke Density in Flue Gases from Distillate Fuels [reapproved 1975 (ANSI Z11.182-65 (R 1971))]

ASTM D2162-17 Standard Practice for Basic Calibration of Master Viscometers and Viscosity Oil Standards

ASTM D2196-18E01 Standard Test Methods for Rheological Properties of Non-Newtonian Materials by Rotational Viscometer

ASTM D2216 Laboratory Determination of Water (Moisture) Content of Soil, Rock, and Soil-Aggregate Mixtures

ASTM D2240 Rubber Property - Durometer Hardness

ASTM D2241 Standard Specification for Poly (Vinyl Chloride) (PVC) Pressure-Rated Pipe (SDR Series)



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ASTM D240-17 Standard Test Method for Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter

ASTM D2464 Standard Specification for Threaded Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80

ASTM D2466 Standard Specification for Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 40

ASTM D2467 Standard Specification for Poly (Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80

ASTM D2487 Standard Practice for Classification of Soils for Engineering Purposes (Unified Soil Classification System)

ASTM D2488 Standard Practice for Description and Identification of Soils (Visual-Manual Procedure)

ASTM D2564 Standard Specification for Solvent Cements for Poly (Vinyl Chloride) (PVC) Plastic Piping Systems

ASTM D257 Test for DC Resistance on conductance of Insulating Materials

ASTM D2661 Standard Specification for Acrylonitrile-Butadiene-Styrene (ABS) Schedule 40 Plastic Drain, Waste, and Vent Pipe and Fittings

ASTM D2665 Standard Specification for Poly (Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent Pipe and Fittings

ASTM D2855 Standard Practice for Making Solvent-Cemented Joints with Poly (Vinyl Chloride) (PVC) Pipe and Fittings

ASTM D2855-13 Standard Practice for the Two-Step (Primer and Solvent Cement) Method for Joining Poly Vinyl Chloride (PVC) or Chlorinated Poly Vinyl Chloride (CPVC) Pipe and Piping Components with Tapered Sockets

ASTM D2922 Density of Soil and Soil-Aggregate in Place by Nuclear Methods (Shallow Depth)

ASTM D3017 Moisture Content of Soil and Soil-Aggregate in Place by Nuclear Methods (Shallow Depth)

ASTM D3282 Standard Practice for Classification of Soils and Soil-Aggregate Mixtures for Highway Construction Purposes

ASTM D3631-95 Measuring Surface Atmospheric Pressure



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ASTM D3656 Standard Specification for Insect Screening and Louver Cloth Woven from Vinyl Coated Glass Yarns

ASTM D3678 Standard Specification for Rubber Cellular Cushion Used for Carpet or Rug Underlay

ASTM D3703-18 Standard Test Method for Hydroperoxide Number of Aviation Turbine Fuels, Gasoline and Diesel Fuels

ASTM D3786 Standard Test Method for Hydraulic Bursting Strength of Knitted Goods and Nonwoven Fabrics - Diaphragm Bursting Strength Tester Method

ASTM D3933-98(2010) Standard Guide for Preparation of Aluminum Surfaces for Structural Adhesives Bonding (Phosphoric Acid Anodizing)

ASTM D3935-15 Standard Classification System and Basis for Specification for Polycarbonate (PC) Unfilled and Reinforced Material

ASTM D396-17 Standard Specification for Fuel Oils

ASTM D4023-82a/R96 Humidity Measurements

ASTM D4099 Standard Specification for Poly (Vinyl Chloride) (PVC) Prime Windows/Sliding Glass Doors

ASTM D4169 Standard Practice for Performance Testing of Shipping Containers and Systems

ASTM D422 Particle-Size Analysis of Soils

ASTM D4230-83/R96 Measuring Humidity with Cooled-Surface Condensation (Dew-Point) Hygrometer

ASTM D4256 Standard Test Method for the Determination of the Decontaminability of Coatings Used in Light-Water Nuclear Power Plants

ASTM D4258 Surface Cleaning of Concrete

ASTM D4259 Abrading Concrete

ASTM D4287-00R14 Standard Test Method for High-Shear Viscosity Using a Cone/Plate Viscometer

ASTM D4294-16e1 Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy Dispersive X-ray Fluorescence Spectrometry



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ASTM D4318 Standard Test Methods for Liquid Limit, Plastic Limit, and Plasticity Index of Soils

ASTM D4355 Standard Test Method for Deterioration of Geotextiles from Exposure to Ultraviolet Light and Water (Xenon-Arc Type Apparatus)

ASTM D4414-95R13 Standard Practice for Measurement of Wet Film Thickness by Notch Gages

ASTM D4430-96 Determining Operational Comparability of Meteorological Measurements

ASTM D4437 Standard Practice for Determining the Integrity of Field Seams Used in Joining Flexible Polymeric Sheet Geomembranes

ASTM D4491 Standard Test Methods for Water Permeability of Geotextiles by Permittivity

ASTM D4533 Standard Test Method for Trapezoid Tearing Strength of Geotextiles

ASTM D4540 Standard Guide for Testing Interior Latex Semigloss and Gloss Paints

ASTM D4546 Standard Test Method for One-Dimensional Swell or Settlement Potential of Cohesive Soil

ASTM D4629-17 Standard Test Method for Trace Nitrogen in Liquid Hydrocarbons by Syringe/Inlet Oxidative Combustion and Chemiluminescence Detection

ASTM D4632 Standard Test Method for Breaking Load and Elongation of Geotextiles (Grab Method)

ASTM D4751 Standard Test Method for Determining Apparent Opening Size of a Geotextile

ASTM D4791 Standard Test Method for Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregate

ASTM D4814-18 Standard Specification for Automotive Spark-Ignition Engine Fuel

ASTM D4833 Standard Test Method for Index Puncture Resistance of Geotextiles, Geomembranes and Related Products

ASTM D4951-14 Standard Test Method for Determination of Additive Elements in Lubricating Oils by Inductively Coupled Plasma Atomic Emission Spectrometry

ASTM D5035 Standard Test Method for Breaking Force and Elongation of Textile Fabrics (Strip Method)



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ASTM D5096-96 Determining the Performance of a Cup Anemometer or Propeller Anemometer

ASTM D512 Chloride Ion in Water

ASTM D5125-10R14 Standard Test Method for Viscosity of Paints and Related Materials by ISO Flow Cups

ASTM D5199 Standard Test Method for Measuring Thickness of Textile Materials

ASTM D5261 Standard Test Method for Mass Per Unit Area (Weight) of Textiles

ASTM D5334 Standard Test Method for Determination of Thermal Conductivity of Soil and Soft Rock by Thermal Needle Probe Procedure

ASTM D5359 Glass Cullet Recovered from Waste

ASTM D5366-96 Determining the Dynamic Performance of a Wind Vane

ASTM D5453 – 09 Standard Test Method for Determination of Total Sulfur in Light Hydrocarbons, Spark Ignition Engine Fuel, Diesel Engine Fuel, and Engine Oil by Ultraviolet Fluorescence

ASTM D5453 – 12 Standard Test Method for Determination of Total Sulfur in Light Hydrocarbons, Spark Ignition Engine Fuel, Diesel Engine Fuel, and Engine Oil by Ultraviolet Fluorescence

ASTM D5527-94 Measuring Surface Wind and Temperature by Acoustic Means

ASTM D5741-96 Characterizing Surface Wind Using a Wind Vane and a Rotating Anemometer

ASTM D5772-17 Standard Test Method for Cloud Point of Petroleum Products and Liquid Fuels

ASTM D6011-96 Determining the Performance of a Sonic Anemometer/Thermometer

ASTM D6079-18 Standard Test Method for Evaluating Lubricity of Diesel Fuels by the High-Frequency Reciprocating Rig (HFRR)

ASTM D6176M-97 Measuring Surface Atmospheric Temperature with Electrical Resistance Temperature Sensors (Metric)

ASTM D6216–07 Standard Practice for Opacity Monitor Manufacturers to Certify Conformance with Design and Performance Specifications



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ASTM D6216–12 Standard Practice for Opacity Monitor Manufacturers to Certify Conformance with Design and Performance Specifications

ASTM D6217-11(2016) Standard Test Method for Particulate Contamination in Middle Distillate Fuels by Laboratory Filtration

ASTM D6239-09(2015) Standard Test Method for Uranium in Drinking Water by High-Resolution Alpha-Liquid-Scintillation Spectrometry

ASTM D6304-16E01 Standard Test Method for Determination of Water in Petroleum Products, Lubricating Oils, and Additives by Coulometric Karl Fischer Titration

ASTM D6365 Standard Practice for Nondestructive Testing of Geomembrane Seams Using the Spark Test

ASTM D6371-17 Standard Test Method for Cold Filter Plugging Point of Diesel and Heating Fuels

ASTM D648-16 Standard Test Method for Deflection Temperature of Plastics Under Flexural Load in the Edgewise Position

ASTM D653 Standard Terminology Relating to Soil, Rock, and Contained Fluids

ASTM D6751-15CE01 Standard Specification for Biodiesel Fuel Blend Stock (B100) for Middle Distillate Fuels

ASTM D6831-11 Standard Test Method for Sampling and Determining Particulate Matter in Stack Gases Using an In-Stack, Inertial Microbalance

ASTM D6938-10 Standard Test Method for In-Place Density and Water Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)

ASTM D698 Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort

ASTM D7036-16 Standard Practice for Competence of Air Emission Testing Bodies

ASTM D7111–16 Standard Test Method for Determination of Trace Elements in Middle Distillate Fuels by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES)

ASTM D7127-17 Standard Test Method for Measurement of Surface Roughness of Abrasive Blast Cleaned Metal Surfaces Using a Portable Stylus Instrument



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ASTM D7321-16a Standard Test Method for Particulate Contamination of Biodiesel B100 Blend Stock Biodiesel Esters and Biodiesel Blends by Laboratory Filtration

ASTM D7345-17 ASTM D7345-17 Standard Test Method for Distillation of Petroleum Products and Liquid Fuels at Atmospheric Pressure (Micro Distillation Method)

ASTM D7395-18 Standard Test Method for Cone/Plate Viscosity at a 500 s⁻¹ Shear Rate

ASTM D75/D75M Standard Practice for Sampling Aggregates

ASTM D7653-10 ASTM D7653-10 Standard Test Method for Determination of Trace Gaseous Contaminants in Hydrogen Fuel by Fourier Transform Infrared (FTIR) Spectroscopy

ASTM D7688-18 Standard Test Method for Evaluating Lubricity of Diesel Fuels by the High-Frequency Reciprocating Rig (HFRR) by Visual Observation

ASTM D7775-16 Standard Guide for Measurements on Small Graphite Specimens

ASTM D7867-13 Standard Test Methods for Measurement of the Rotational Viscosity of Paints, Inks and Related Liquid Materials as a Function of Temperature

ASTM D792 Standard Test Methods for Density and Specific Gravity (Relative Density) of Plastics by Displacement

ASTM D820-18 Standard Practices for Producing Films of Uniform Thickness of Paint, Coatings and Related Products on Test Panels

ASTM D897-08(2016) Standard Test Method for Tensile Properties of Adhesive Bonds Standard Test Method for Tensile Properties of Adhesive Bonds

ASTM D923 Standard practices for sampling electrical insulating liquids

ASTM D93-16a Standard Test Methods for Flash Point by Pensky-Martens Closed Cup Tester

ASTM D975-16 Standard Specification for Diesel Fuel Oils

ASTM D975-17 Standard Specification for Diesel Fuel Oils

ASTM D975-18 Standard Specification for Diesel Fuel Oils

ASTM E104-85/R96 Maintaining Constant Relative Humidity by Means of Aqueous Solutions



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ASTM E1168 Standard Guide for Radiological Protection Training for Nuclear Facility Workers

ASTM E119 Standard Methods of Fire Tests of Building Construction and Materials

ASTM E119-16a Standard Test Methods for Fire Tests of Building Construction and Materials

ASTM E1264 Standard Classification for Acoustical Ceiling Products

ASTM E1301-95:2003 Standard Guide for Proficiency Testing by Interlaboratory Comparisons

ASTM E136 Behavior of Materials in a Vertical Tube Furnace at 750 degrees C

ASTM E142 Controlling Quality of Radiographic Testing

ASTM E152 Methods of Fire Tests of Door Assemblies

ASTM E1952-17 Standard Test Method for Thermal Conductivity and Thermal Diffusivity by Modulated Temperature Differential Scanning Calorimetry

ASTM E2018-15 Standard Guide for Property Condition Assessments: Baseline Property Condition Assessment Process

ASTM E2081-00(2015 Standard Guide for Risk-Based Corrective Action

ASTM E210-63(2016) Standard Specification for Microscope Objective Thread

ASTM E2131-16 Standard Practice for Addressing and Reporting Losses of Tangible Property

ASTM E2132-01 Standard Practice for Assessing Loss, Damage, or Destruction of Property

ASTM E2132-17 Standard Practice for Inventory Verification: Electronic and Physical Inventory of Assets

ASTM E2135-07 Standard Terminology for Property and Asset Management

ASTM E2174 Rev. B Standard Practice for On-Site Inspection of Installed Firestops

ASTM E2221-02 Standard Practice for Administrative Control of Property

ASTM E2247-16 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process for Forestland or Rural Property



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ASTM E2279-03 Standard Practice for Establishing the Guiding Principles of Property Management

ASTM E2306-03 Standard Practice for Utilization and Disposal of Personal Property

ASTM E2306-18 Standard Guide for Disposal of Personal Property Assets

ASTM E2338-17 Standard Practice for Characterization of Coatings Using Conformable Eddy Current Sensors without Coating Reference Standards

ASTM E2378-13 Standard Practice for the Recognition of Impaired or Retired Personal Property

ASTM E2393 Rev. A Standard Practice for On-Site Inspection of Installed Fire Resistive Joint Systems and Perimeter Fire Barriers

ASTM E2394 Standard Practice for Maintenance, Renovation, and Repair of Installed Asbestos Cement Products

ASTM E2452-12 Standard Practice for Equipment Management Process Maturity (EMPM) Model

ASTM E2453-13 Standard Practice for Determining the Life-Cycle Cost of Ownership of Personal Property

ASTM E2456-06 ASTM E2456-2006 Standard Terminology Relating to Nanotechnology

ASTM E2495-18 Standard Practice for Prioritizing Asset Resources in Acquisition, Utilization, and Disposition

ASTM E2497-11 Standard Practice for Calculation of Asset Movement Velocity (AMV)

ASTM E2499-11 Standard Practice for Classification of Asset Physical Location Information

ASTM E2499-18 Standard Practice for Classification of Asset Physical Location Information

ASTM E2515-11(2017) Standard Test Method for Determination of Particulate Matter Emissions Collected by a Dilution Tunnel

ASTM E2535-2007 Standard Guide for Handling Unbound Engineered Nanoscale Particles in Occupational Settings

ASTM E2604-15 Standard Practice for Data Characteristics of Equipment Asset Record

ASTM E2606-13 Standard Practice for Receipt Notification as a Result of Tangible Asset Movement



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ASTM E2606-18 Standard Practice for Receipt Notification as a Result of Tangible Asset Movement

ASTM E2607-08(2013) Standard Practice for Cannibalization/Reclamation of Serviceable Equipment Components to Support Demand Requirements

ASTM E2608-08(2014) Standard Practice for Equipment Control Matrix

ASTM E2631-09(2015) Standard Practice for Physical Placement of an Entity-Controlled Supplemental Identification Label

ASTM E2640-10 Standard Guide for Resource Management in Emergency Management and Homeland Security

ASTM E2671-10(2016) Standard Practice for Defining Movements, Shipments, and Transfers of Tangible Property

ASTM E2672-16 Standard Practice for Identification and Categorization of Tooling

ASTM E2675-09(2014) Standard Practice for Property Management System Outcomes

ASTM E2676-09(2014) Standard Practice for Tangible Property Mobility Index (MI)

ASTM E2715-09 Standard Practice for Moveable Property Storage Standard Practice for Moveable Property Storage

ASTM E2758-15A Standard Guide for Selection and Use of Wideband, Low Temperature Infrared Thermometers

ASTM E2779-10R17 Standard Test Method for Determining Particulate Matter Emissions from Pellet Heaters

ASTM E2811-11 Standard Practice for Management of Low Risk Property (LRP)

ASTM E2812-17 Standard Practice for Uniform Data Management in Asset Management Records Systems

ASTM E283 Standard Test Method for Rate of Air Leakage Through Exterior Windows, Curtain Walls and Doors

ASTM E2858-12 Standard Practice for Sales of Personal Property



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ASTM E2936-13 Standard Guide for Contractor Self-Assessment for U.S. Government Property Management Systems

ASTM E2962-14 Standard Guide for Fleet Management

ASTM E29-93A Standard Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications

ASTM E3015-15 Standard Guide for Management of Customer-Owned Property Assets in Possession of Supplier, Contractor or Subcontractor

ASTM E3056-16 Standard Guide for Strategic Warehousing

ASTM E337-84/R96 Measuring Humidity with a Psychrometer (the Measurement of Wet- and Dry-Bulb Temperatures)

ASTM E380 Standard Practice for the Use of the International System of Units (SI)

ASTM E399-12e3 Standard Test Method for Linear-Elastic Plane-Strain Fracture Toughness K_{Ic} of Metallic Materials

ASTM E413 Classification for Rating Sound Insulation

ASTM E413-04 Classification for Rating Sound Insulation

ASTM E490-00a(2014) Standard Solar Constant and Zero Air Mass Solar Spectral Irradiance Tables

ASTM E531-13 Standard Practice for Surveillance Testing of High-Temperature Nuclear Component Materials

ASTM E576 Standard Test Method for Dew/Frost Point of Sealed Insulating Glass Units in Vertical Position

ASTM E580 Standard Practice for Application of Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels in Areas Requiring Seismic Restraint

ASTM E617-91 Standard Specification for Laboratory Weights and Precision Mass Standards, 17th Edition, 1991

ASTM E647-15e1 Standard Test Method for Measurement of Fatigue Crack Growth Rates



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ASTM E648 Standard Test Method for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source

ASTM E691 Standard Practice for Conducting an Interlaboratory Test Program to Determine the Precision of Test Methods

ASTM E737 Standard Practice for the Installation of Storm Windows, Replacement Windows, Multi-Glazing, Storm Doors and Replacement Doors

ASTM E748-16 Standard Guide for Thermal Neutron Radiography of Materials

ASTM E8/E8M Standard Test Methods for Tension Testing of Metallic Materials

ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials

ASTM E84-89a Standard Test Method for Surface Burning Characteristics of Building Materials

ASTM E90 Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions

ASTM E96 Standard Test Method for Water Vapor Transmission of Materials in Sheet Form (reapproved 1972)

ASTM E986-04R17 Standard Practice for Scanning Electron Microscope Beam Size Characterization

ASTM F 1468-04A Standard Practice for Evaluation of Metallic Weapons Detectors for Controlled Access Search and Screening

ASTM F0007-95R16 Standard Specification for Aluminum Oxide Powder

ASTM F104 Standard Classification System for Nonmetallic Gasket Materials

ASTM F1117 Standard Specification for Dielectric Overshoe Footwear

ASTM F1145-05(2011) Standard Specification for Turnbuckles, Swaged, Welded, Forged

ASTM F1192-11 Standard Guide for the Measurement of Single Event Phenomena (SEP) Induced by Heavy Ion Irradiation of Semiconductor Devices

ASTM F1236 Standard Guide for Visual Inspection of Electrical Protective Rubber Products

ASTM F1236-18 Standard Guide for Visual Inspection of Electrical Protective Rubber Products



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ASTM F1292 Standard Specification for Impact Attenuation of Surfacing Materials within the Use Zone of Playground Equipment

ASTM F1346 Standard Performance Specification for Safety Covers and Labeling Requirements for All Covers for Swimming Pools, Spas and Hot Tubs

ASTM F1449-08R15 Standard Guide for Industrial Laundering of Flame, Thermal, and Arc Resistant Clothing

ASTM F146 Standard Test Methods for Fluid Resistance of Gasket Materials

ASTM F1461 Standard Practice for Chemical Protective Clothing Program

ASTM F1487 Standard consumer Safety Performance Specification for Playground Equipment for Public Use

ASTM F1505 Specifications for Insulated and Insulating Hand Tools

ASTM F1506 Standard Specification for Protective Wearing Apparel for Use by Electrical Workers When Exposed to Momentary Electric Arc and Related Thermal Hazards

ASTM F1506-18 Standard Performance Specification for Flame Resistant and Electric Arc Rated Protective Clothing Worn by Workers Exposed to Flames and Electric Arcs

ASTM F152 Standard Test Methods for Tension Testing of Nonmetallic Gasket Materials

ASTM F1742 Specifications for PVC Insulating Sheeting

ASTM F2164-13 Standard Practice for Field Leak Testing of Polyethylene (PE) and Crosslinked Polyethylene (PEX) Pressure Piping Systems Using Hydrostatic Pressure

ASTM F2178 02 Standard Test Method for Determining the Arc Rating and Standard Specification for Eye or Face Protective Products

ASTM F2223 Standard Guide for ASTM Standards on Aplayground Surfacing

ASTM F2249-03(2015) Standard Specification for In-Service Test Methods for Temporary Grounding Jumper Assemblies Used on De-Energized Electric Power Lines and Equipment

ASTM F2373 Standard Consumer Safety Performance Specification for Public Use Play Equipment for Children 6 Months through 23 Amonths



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ASTM F2412-05 Standard Test Methods for Foot Protection

ASTM F2413-05 Standard Specification for Performance Requirements for Foot Protection

ASTM F2413-18 Standard Specification for Performance Requirements for Protective (Safety) Toe Cap Footwear

ASTM F3148-17A Standard Specification for High Strength Structural Bolt Assemblies, Steel and Alloy Steel, Heat Treated, 144ksi Minimum Tensile Strength, Inch Dimensions

ASTM F3178 Standard Practice for Operational Risk Assessment of Small Unmanned Aircraft Systems (sUAS)

ASTM F3278-17 Standard Performance Specification for Hand-Held Metal Detectors Used in Safety and Security

ASTM F36 Standard Test Method for Compressibility and Recovery of Gasket Materials

ASTM F37 Standard Test Methods for Sealability of Gasket Materials

ASTM F38 Standard Test Methods for Creep Relaxation of a Gasket Material

ASTM F433 Standard Practice for Evaluating Thermal Conductivity of Gasket Materials

ASTM F436 Hardened Steel Washers

ASTM F457-04R17 Standard Test Method for Speed and Distance Calibration of Fifth Wheel Equipped with Either Analog or Digital Instrumentation

ASTM F468M-06R18 Standard Specification for Nonferrous Bolts, Hex Cap Screws, and Studs for General Use (Metric)

ASTM F496 Standard Specification for In-Service Care of Insulating Gloves and Sleeves

ASTM F496-14A Standard Specification for In-Service Care of Insulating Gloves and Sleeves

ASTM F568M-07 Standard Specification for Carbon and Alloy Steel Externally Threaded Metric Fasteners (Withdrawn 2012)

ASTM F693 Standard Practice for Sealing Seams of Resilient Sheet Flooring Products

ASTM F696 Standard Specification for Leather Protectors for Rubber Insulating Gloves and Mittens



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ASTM F696-06R11 Standard Specification for Leather Protectors for Rubber Insulating Gloves and Mittens

ASTM F792 Standard Practice for Design and Use of Ionizing Radiation Equipment for Detection of Items Prohibited in Controlled Areas

ASTM F792-01e2 Standard Practice for Evaluating the Imaging Performance of Security X-Ray Systems

ASTM F792-17e1 Standard Practice for Evaluating the Imaging Performance of Security X-Ray Systems

ASTM F837M-16 Standard Specification for Stainless Steel Socket Head Cap Screws [Metric]

ASTM F855-15 Standard Specifications for Temporary Protective Grounds to Be Used on De-energized Electric Power Lines and Equipment

ASTM F985-00(2012) Standard Specification for Panama Canal Pilot Platform

ASTM F998 Standard Specification for Centrifugal Pump, Shipboard Use

ASTM G1 Standard Recommended practice for Preparing, Cleaning, and Evaluating Corrosion Test Specimens (reapproved 1979)

ASTM G1-03R17E01 Standard Practice for Preparing, Cleaning, and Evaluating Corrosion Test Specimens

ASTM G167-15 Standard Test Method for Calibration of a Pyranometer Using a Pyrheliometer

ASTM G173-03(2012) Standard Tables for Reference Solar Spectral Irradiances: Direct Normal and Hemispherical on 37° Tilted Surface

ASTM G28 Standard Test Methods of Detecting Susceptibility to Intergranular Corrosion in Wrought, Nickel-Rich, Chromium-Bearing Alloys

ASTM G46 Standard Practice for Examination and Evaluation of Pitting Corrosion

ASTM WK62589 Total Measurement Uncertainty Estimation and Reporting for Nondestructive Assay Measurements

ASTM-B232/B 232M Standard Specification for Concentric-Lay-Stranded Aluminum Conductors, Coated-Steel Reinforced (ACSR)

ASTM-D1535 Standard Practice for Specifying Color by the Munsell System



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ASTM-D1816 Standard Test Method for Dielectric Breakdown Voltage of Insulating Oils of Petroleum Origin Using VDE Electrodes

ASTM-D92 Standard Test Method for Flash and Fire Points by Cleveland Open Cup

ASTM-E1699-0 Standard Practice for Performing Value Analysis for Projects, Products and Services

ASTM-F1825 Standard Specification for Clampstick Type Live Line Tools

ASTM-F1826 Standard Specification for Live Line and Measuring Telescoping Tools

ASTM-F711 Standard Specification for Fiberglass-Reinforced Plastic (FRP) Rod and Tube Used in Live Line Tools

ASTM-F855 Standard Specifications for Temporary Protective Grounds to Be Used on De-energized Electric Power Lines and Equipment

ASTM-G57-95a Standard Test Method for Field Measurement of Soil Resistivity Using the Wenner Four-Electrode Method

ATA Hazardous Materials Tariff

ATSSA Uniform Traffic Control Devices

AWI Architectural Woodwork Institute Quality Standards

AWS A2.4 Standard Symbols for Welding, Brazing, and Nondestructive Examination

AWS A3.0 Standard Welding Terms and Definitions Including Terms for Adhesive Bonding, Brazing, Soldering, Thermal Cutting, and Thermal Spraying

AWS A5.32 Welding Shielding Gases

AWS B2.1 Specification for Welding Procedure and Performance Qualification

AWS D1.1 Structural Welding Code-Steel

AWS D1.2 Structural Welding Code-Aluminum

AWS D1.3 Structural Welding Code-Sheet Steel

AWS D1.4 Structural Welding Code - Reinforcing Steel



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

AWS D1.6 Structural Welding Code - Stainless Steel

AWS D1.8/D1.8M Structural Welding Code - Seismic Supplement

AWS D14.1 Specification for Welding Industrial Mill Cranes

AWS D5.2 Standards for Welded Steel, Elevated Tanks, Standpipes, and Reservoirs for Water Storage
(see AWWA D100)

AWS D9.1 Sheet Metal Welding Code

AWS D9.1M Sheet Metal Welding Code

AWS F2.1 Recommended Safe Practice for Electron Beam Welding and Cutting

AWS QC-1 Specification for Qualification and Certification of Welding Inspectors

AWS Z49.1 Safety in Welding, Cutting and Allied Processes

AWWA B201 Soda Ash

AWWA C200 Steel Water Pipe, 6 in. (150mm) and Larger

AWWA C210 Liquid Epoxy Coatings and Linings for Steel Water Pipe and Fittings

AWWA C509 Resilient Seated Gate Valves for Water Supply Service

AWWA C515 Reduced Wall, Resilient Seated Gate Valves for Water Supply Service

AWWA C550 Protective Interior Coatings for Valves and Hydrants

AWWA C600 Installation of Ductile Iron Mains and Their Appurtenances

AWWA C605 Underground Installation of Polyvinyl Chloride (PVC) and Molecularly Oriented Polyvinyl Chloride (PVCO) Pressure Pipe and Fittings

AWWA C651 Standard for Disinfecting Water Mains

AWWA C652 Disinfection of Water Storage Facilities

AWWA C904 Cross-Linked Polyethylene (PEX) Pressure Tubing, 1/2 in. (13mm) Through 3 in. (76mm),
for Water Service



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

AWWA Cross Connection Control Manual

AWWA D100 Welded Steel Tanks for Water Storage

AWWA D100-96 Welded Steel Tanks for Water Storage (Includes Supplement to ANSI/AWWA D100a-89)

AWWA D100a-89 Welded Steel Tanks for Water Storage (Supplement to ANSI/AWWA D100-84)

AWWA E101 Vertical Turbine Pumps - Line Shaft and Submersible Types

AWWA E103-15 Horizontal and Vertical Lineshaft Pumps

AWWA M58 Internal Corrosion Control in Water Distribution Systems - Second Edition

AWWA Manual of Water Quality and Treatment

AWWA Standard Methods for the Examination of Water and Wastewater

AWWA Water Treatment Plant Design

BCNYS-2010 Building Code of New York State - 2010 Edition

Bell Telephone Standards Maintenance, Installation and Operation

BHMA 156 Series Performance Standards

BIA 7 Water Resistance of Brick Masonry—Design and Detailing

BIA Building Code Requirements for Engineered Brick Masonry (replaced by ACI 530) (Inactive)

BIA Damp Proofing and Water Proofing Masonry Walls

BOCA Basic National Mechanical Code

BOCA NBC National Building Code

BS OHSAS 18001 Occupational Health and Safety Management Systems - Requirements

CGA G4.1 Cleaning Equipment for Oxygen

CGA G4.4 Industrial Practices for Gaseous Oxygen Transportation and Distribution Piping



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

CGA Handbook of Compressed Gases

CGA P-1 Safe Handling of Compressed Gases in Containers

CGA P-12 Compressed Gas Association Pamphlet, P12 Safe Handling of Cryogenic Liquids

CGA P-2.5 Transfilling of High-Pressure Gaseous Oxygen to be Used for Respiration

CGA P-2.6 Transfilling of Liquid Oxygen to be Used for Respiration

CGA S-1.1 Pressure Relief Device Standards, Part 1, Cylinders for Compressed Gases

CGA S-1.2 Pressure Relief Device Standards, Part 2, Cargo and Portable Tanks for Compressed Gases

CGA S-1.3 Pressure Relief Device Standards, Part 3, Compressed Gas Storage Containers (Fourth Edition)

CGA V-1 Standard for Compressed Gas Cylinder Valve Outlet and Inlet Connections

CGAG-4 1996 Oxygen

CGAG-5 Hydrogen

CIAC 628 Computer Incident Advisory Capability

CIAC 632 Computer Incident Advisory Capability

CID A-A-59486C Padlock Set (individually keys or keyed alike)

CID A-A-59487C Padlock (key operated)

CISCA Acoustical Ceilings-Use and Practice

CMAA 70 Specification for Electric Overhead Traveling Cranes

CMAA 74 Crane Manufacturer's Association of America Specification

CMAA No. 74 Specification for Top Running and Under Running, Single Girder, Electric Overhead Traveling Cranes.

CSA/AM ANSI/CSA FC 1-2014 Fuel cell technologies - Part 3-100: Stationary fuel cell power systems - Safety



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

CSAO Crane Handbook

CSAO Rigging Manual

CSD-1 Controls and Safety Devices for Automatically Fired Boilers

CTI ATC-105 Acceptance Test Code for Water Cooling Towers

CTI Std. 201 Standard for the Certification of Water-Cooling Towers Thermal Performance

CTI WTB-148 Legionellosis Guideline: Best Practices for Control of Legionella

DHI The Installation of Commercial Steel Doors and Steel Frames, Insulated Steel Doors in Wood Frames and Builder's Hardware-E, G

EF M0008RPE Design of Municipal Wastewater Treatment Plants

EIA 222-D Structural Standards for Steel Antenna Towers and Antenna Supporting Structures

EIA/IS-632 Systems Engineering

EIA-748-C Earned Value Management Systems

FED-STD-832 Construction Methods and Materials for Vaults

FF-L-2740B Amendment 1, Locks, Combination, Electromechanical

FF-P-110J Padlock, Changeable Combination

FGMA Glazing Manual

FGMA Sealant Manual

FM (now FMRC) Approval Guides

FM 1 (now FMRC) Loss Prevention Data Sheets

FM 1-28 Wind Loads to Roof Systems and Roof Deck Securement

FM 1-28S Wind Uplift Pressures on Roofs

FM 1-57 (now FMRC) Loss Prevention Data Sheet on Rigid Foamed Polyurethane



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

FM 3990 Less or Nonflammable Liquid-Insulated

FM 5.4 (now FMRC) Loss Prevention Data Sheet on Transformers

FM 6933 Less Flammable Transformer Fluids

FM Approvals-3990 Approval Standard for Less or Nonflammable Liquid-Insulated Transformers

FM Approvals-6933 Approval Standard for Less Flammable Transformer Fluids

FM Approvals-69934 Approval Standard for Nonflammable Transformer Fluids

FM Global-1-1 Property Loss Prevention Data Sheet - Firesafe Building Construction and Materials

FM Global-2-2 Property Loss Prevention Data Sheet - Installation Rules for Suppression Mode Automatic Sprinklers

FM Global-5-10 Property Loss Prevention Data Sheet - Protective Grounding for Electric Power Systems and Equipment

FM Global-5-19 Property Loss Prevention Data Sheet - Switchgear and Circuit Breakers

FM Global-5-4 Property Loss Prevention Data Sheet - Transformers

FS 0-F-506C Flux, Soldering, Paste and Liquid

FS DD-G-1403B Glass, Plate (float), Sheet, Figured, and Spandrel (Heat Strengthened and Fully Tempered)

FS DD-G-451D Glass Sheet, Figured, (Float, Flat, for Glazing, Corrugated, Mirrors, and Other Uses)

FS FF-B-575C Bolt, Hexagon and Square

FS FF-D-396H Dispensers, Soap

FS FF-N-836D Nut, Square, Hexagon, Cap, Slotted, Castellated, Clinch, Knurled and Welding

FS FF-S-107C Screw, Tapping and Drive

FS MMM-A-110B(1) Federal Specification Adhesive, Bonding Vulcanized Synthetic Rubber to Steel HAP-Free Replacement



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

FS SS-W-40A Wallbase and Vinyl Plastic, Type I and II

FS TT E-489H Enamel, Odorless, Alkyd, Gloss (for Exterior and Interior Surfaces)

FS TT-650D Primer Coating, Latex Base, Interior, White (for Gypsum Wallboard or Plaster)

FS TT-C-535B Coating Epoxy, Interior Undercoat, Two Component, for interior use on Metal, Wood, Wallboard, Painted Surfaces, Concrete and Masonry

FS TT-E-506K Enamel, Alkyd, Gloss, Tints, and White (for Interior Use)

FS TT-E-508C Enamel, Interior, Semigloss, Tints, and White

FS TT-E-509C Enamel, Odorless, Alkyd Interior, Semigloss, White and Tints

FS TT-E-545D Enamel, Odorless, Alkyd, Interior Undercoat, Flat, Tints, and White

FS TT-F-1098D Filler, Block, Solvent Thinned, for Porous Surfaces (Concrete Block, Cinder Block, Stucco, Etc.)

FS TT-P-1511A Paint, Latex-Base, Gloss and Semigloss, Tints and White (for Interior use)

FS TT-P-96D Paint Latex Base for Exterior Surfaces (White and Tints)

FS TT-S-001543A Sealing Compound: Silicone Rubber Base (for caulking, sealing, and Glazing Inbuilding and Other Structures)

FS TT-S-00227E Sealing Compound: Elastomeric Type, Multi-Component (for Caulking, Sealing and Glazing Inbuilding and Other Structures)

FS WW-P 541B Plumbing Fixtures

FS-L-F-475A(2) Floor Covering Vinyl, Surface (Tile and Roll), with Backing

FSS TT-P-29K Paint, Latex

GA 201 Using Gypsum Board for Walls and Ceilings

GIH TLVs Threshold Limit Values for Chemical Substances and Physical Agents

HCM Highway Capacity Manual, 6th Edition, A Guide for Multimodal Mobility Analysis



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

HI Hydraulic Institute Standard for Centrifugal, Rotary and Reciprocating Pumps

HLD-1 Performance Evaluation Procedure for Household Tumble Type Clothes Dryers

HLD-2EC Test Method for Measuring Energy Consumption of Household Tumble Type Clothes Dryers

HLW-1 Household Washer Performance Evaluation Procedure

HLW-2EC Test Method for Measuring Energy Consumption of Household Clothes Washers

HRF-2ECFT Test Procedures to Determine the Temperature and Energy Consumption of Household Refrigerators, Combination Refrigerator - Freezes, and Freezers

HTSUS Harmonized Tariff Schedule of the U.S.

HU-1 Appliance Humidifier Standard

IAEA 116 Design of Spent Fuel Storage Facilities

IAEA 207 Notification to the Agency (IAEA) of Exports and Imports of Nuclear Material

IAEA 30 Manual on the Safety Aspects of the Design and Equipment of Hot Laboratories

IAEA 31 Safe Operation of Nuclear Power Plants

IAEA 35 Safe Operation of Critical Assemblies and Research Reactors, Series

IAEA 35.S1 Code on the Safety of Nuclear Research Reactors

IAEA 50-SG-QA10 Safety Guide—Assessment

IAEA 50-SG-S3 Atmospheric Dispersion in Nuclear Power Plant Siting

IAEA 6 Regulations for the Safe Transportation of Radioactive Material

IAEA 75-INSAG-3 Basic Safety Principles for Nuclear Power Plants

IAEA Agreement Between the United States and the IAEA for the Application of Safeguards in the United States, and Additional Protocol

IAEA Criticality Control of Fissile Materials



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

IAEA Dangerous Goods Regulations

IAEA GSR Part 3 Radiation Protection and Safety of Radiation Sources: International Basic Safety Standards

IAEA GSR Part 3 Radiation Protection and Safety of Radiation Sources: International Basic Safety Standards

IAEA INFCIRC/140 Treaty on the Non-Proliferation of Nuclear Weapons, 4-22-70

IAEA INFCIRC/153 Corrected the Structure and Content of Agreements Between the Agency and States Required in Connection with the Treaty on the Non - Proliferation of Nuclear Weapons, June 1997

IAEA INFCIRC/207 Notification to the Agency (IAEA) of Exports and Imports of Nuclear Material, 7-26-74, and amendment letter, 9-15-82

IAEA INFCIRC/225/Rev 4 The Physical Protection of Nuclear Material and Nuclear Facilities, June 1999 Corrected

IAEA INFCIRC/274/Rev 1/Add 8 Convention on the Physical Protection of Nuclear Material, 11-15-02

IAEA INFCIRC/288 IAEA Information Circular 288

IAEA NMMSS D-207 U.S. Importer and Exporter and Foreign Facility IAEA Material Balance Area Codes and IAEA Country Codes

IAEA RS-G-1.7 Application of the Concepts of Exclusion, Exemption and Clearance

IAEA Safety Series 50-P-1 Application of Single Failure Criterion: Safety Practice

IAEA Safety Series No. 81 Derived Intervention Levels for Application in Controlling Radiation Doses to the Public in the Event of a Nuclear Accident or Radiological Emergency

IAEA Safety Series No. 86 Techniques and Decision Making in the Assessment of Off-Site Consequences of an Accident in a Nuclear Facility

IAEA Safety Series No. 87 Emergency Response Planning and Preparedness for Transport Accidents Involving Radioactive Material

IAEA SRS 44 Derivation of Activity Concentration Values for Exclusion, Exemption and Clearance



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

IAEA SRS-37 Methods for Assessing Occupational Radiation Doses Due to the Intakes of Radionuclides

IAEA SS 111-P-1.1 Application of Exemption Principles to the Recycle and Reuse of Materials from Nuclear Facilities

IAEA- STI/PUB/1264 WIMS-D Library Update

IAEA TECDOC-919 Management of Procurement Activities in a Nuclear Installation

IAEA TR 152 Evaluation of Radiation Emergencies and Accidents

IAEA TRS-188 Radiological Safety Aspects of the Operation of Electron Linear Accelerators

IAEA TRS-318 Compendium of Neutron Spectra and Detector Responses for Radiation Protection Purposes

IAEA TRS-403 Supplement to TRS-318

IAEA-TECDOC-410 Properties of Neutron Sources

IAPMO UMC Uniform Mechanical Code

IAPMO Uniform Plumbing Code

IATA Dangerous Goods Regulations, 50th edition, 2009-2010

IATA International Air Transport Association Safety Requirements

IATA Restricted Articles Regulation (International Air Transportation Association)

ICAO International Civil Aviation Technical Instructions

ICBO 17-6 Method of Test for the Evaluation of Flammability Characteristics of Exterior, Nonload - Bearing Wall Panel Assemblies Using Foam Plastic Insulation

ICBO 4071 Suspended Ceilings

ICBO 47-18 Metal Suspension Systems for Acoustical Tile and for Lay-in Panel Ceilings

ICBO International Mechanical Code

ICBO UBC Uniform Building Code



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ICC (International Code Council) International Building Code (IBC)

ICC I-CODE IEAPC International Electrical Administrative Provisions Code - Third Printing: March 2007

ICC I-CODE IEBC International Existing Building Code with Commentary - First Printing: November 2015

ICC I-CODE IFC International Fire Code with Commentary

ICC I-CODE IFGC International Fuel Gas Code with Commentary

ICC I-CODE IGCC International Green Construction Code

ICC I-CODE IMC International Mechanical Code

ICC I-CODE IPC International Plumbing Code

ICC IFC International Fire Code (IFC)

ICC/ANSI A 117.1 Specifications for Making Buildings and Facilities Accessible to, and Usable by, Physically Handicapped People

ICC-IBC International Building Code

ICI Publication 13.2 Method of Measuring and Specifying Color Rendering Properties of Light Sources corrected 1993

ICRP 107 Nuclear Decay Data for Dosimetric Calculations

ICRP 130 Occupational Intakes of Radionuclides

ICRP 22 Implications of Commission Recommendations that Doses be Kept as Low as Readily Achievable

ICRP 23 Reference Man Anatomical Physiological and Metabolic Characteristics

ICRP 25 The Handling, Storage, Use and Disposal of Unsealed Radionuclides in Hospitals and Medical Research Facilities

ICRP 26 Recommendations of the International Commission on Radiological Protection

ICRP 30 Limits for Intakes of Radionuclides by Workers



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ICRP 32 Limits for Inhalation of Radon Daughters by Workers

ICRP 37 Cost-Benefit Analysis in the Optimization of Radiation Protection

ICRP 38 Radionuclide Transformations: Energy and Intensity of Emissions

ICRP 40 Protection of the Public in the Event of Major Radiation Accidents: Principles for Planning

ICRP 45 Quantitative Basis for Developing a Unified Index of Harm

ICRP 48 The Metabolism of Plutonium and Related Elements

ICRP 54 Individual Monitoring for Intakes of Radionuclides by Workers: Design and Interpretation

ICRP 55 Optimization and Decision-Making in Radiological Protection

ICRP 60 1990 Recommendations of the International Commission of Radiological Protection

ICRP 66 Human Respiratory Tract Model of Radiological Protection

ICRP 67 Age-Dependent Doses to Members of the Public from Intake of Radionuclides, pt. 2

ICRP 68 Dose Coefficients for Radionuclide Intakes by Workers

ICRP 69 Age-Dependent Doses to Members of the Public from Intake of Radionuclides, pt. 3

ICRP 71 Age-Dependent Doses to Members of the Public from Intake of Radionuclides, pt. 4

ICRP 72 Age-Dependent Doses to Members of the Public from Intakes of Radionuclides, Part 5,
Compilation of Ingestion and Inhalation Coefficients

ICRP 74 Conversion Coefficients for Use in Radiological Protection Against External Radiation

ICRP 75 General Principles for the Radiation Protection of Workers

ICRP 78 Individual Monitoring for Internal Exposure of Workers - Replacement of ICRP Publication 54

ICRP 88 Doses to the Embryo and Fetus from Intakes of Radionuclides by the Mother

ICRP 89 Basic Anatomical and Physiological Data for Use in Radiological Protection: Reference Values

ICRP 92 Relative Biological Effectiveness, Radiation Weighting and Quality Factor



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ICRP Publication 100 Human Alimentary Tract Model for Radiological Protection

ICRP Publication 103 2007 Recommendations of the ICRP

ICRP Publication 116 Conversion Coefficients for Radiological Protection Quantities for External Radiation Exposures

ICRP Publication 38 Radionuclide Transformations: Energy and Intensity of Emissions

ICRP Publication 56 Age-Dependent Doses to Members of the Public from the Intake of Radionuclides, pt. 1

ICRP Publication 67 Age-Dependent Doses to Members of the Public from Intake of Radionuclides, pt. 2

ICRP Publication 69 Age-Dependent Doses to Members of the Public from Intake of Radionuclides, pt. 3

ICRP Publication 71 Age-Dependent Doses to Members of the Public from Intake of Radionuclides, pt. 4

ICRP Publication 92 Relative Biological Effectiveness, Radiation Weighting and Quality Factor

ICRP Radiation Protection Standards Report

ICRP Report of the Task Group on Reference Man

ICRP Supporting Guidance 3 Guide of the Practical Application of the ICRP HRT Model

ICRP-56 Age Dependent Doses from Intakes of Radionuclides, 1989

ICRP-67 Age Dependent Doses to Members of the Public from Intake of Radionuclides, Part 2: Ingestion Dose Coefficients, 1993

ICRP-69 Age-Dependent Doses to Members of the Public from Intake of Radionuclides, Part 3: Ingestion Dose Coefficients, 1995

ICRP-71 Age Dependent Doses to Members of the Public from Intake of Radionuclides, Part 4: Inhalation Dose Coefficients, 1996

ICRU 14 Radiation Dosimetry



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ICRU 20 Radiation Protection Instrumentation and Its Application

ICRU 33 Radiation Quantities and Units

ICRU 43 Determination of Dose Equivalents from External Radiation Sources—Part 2

ICRU 66 Determination of Operational Dose Equivalent Quantities for Neutrons

ICRU 66 Determination of Operational Dose Equivalent Quantities for Neutrons

ICRU-57 Conversion Coefficients for use in Radiological Protection against External Radiation, 1998

ICS 705.1 Physical and Technical Security Standards for Sensitive Compartmented Information Facilities

IEBC International Existing Building Code

IEC 60034-1 / NF EN 60034-1 Rotating electrical machines-Part 1: Rating and Performances

IEC 60038 IEC standard voltages

IEC 60050-161 International Electrotechnical Vocabulary. Chapter 161: Electromagnetic compatibility

IEC 60050-461 International Electrotechnical Vocabulary. Chapter 461: Electric cables

IEC 60059 IEC standard current ratings

IEC 60060-1-3.0 High Voltage test techniques

IEC 60068 Environmental testing

IEC 60068-1 Environmental testing – Part 1 General and Guidance

IEC 60068-2-14 Environmental testing – Part 2: Tests –Test N: Change of temperature

IEC 60068-2-2 Basic environmental testing procedure f-Part 2: Tests – Tests B: Dry Heat

IEC 60068-2-57 Environmental testing – Part 2: Tests –Test Fc: Vibration Time history method

IEC 60068-2-59 Environmental testing – Part 2-57: Tests –Test Ff: Sine-Beat method

IEC 60068-2-6 Environmental testing – Part 2: Tests –Test Fc: Vibration (sinusoidal)



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

IEC 60068-3-3 Environmental testing. Part 3 : Guidance –Seismic test method for equipment

IEC 60071-1,2 Insulation co-ordination

IEC 60076-11 Power transformers – Part 11 : Dry-type transformers

IEC 60085 Electrical insulation - Thermal evaluation and designation

IEC 60146-2 Semiconductor converters – Part 2 : Self commutated semiconductor converters including direct dc converters

IEC 60216-1 Electrical insulating materials - Properties of thermal endurance - Part 1: Ageing procedures and evaluation of test results

IEC 60216-2 Electrical insulating materials - Thermal endurance properties - Part 2: Determination of thermal endurance properties of electrical insulating materials - Choice of test criteria

IEC 60231A General principles of nuclear reactor instrumentation

IEC 60297-1 Dimensions of mechanical structures of the 482.6 mm (19 in) series. Part 1: Panels and racks

IEC 60297-2 Dimensions of mechanical structures of the 482.6 mm (19 in) series. Part 2: Cabinets and pitches of rack structures

IEC 60297-3 Mechanical structures for electronic equipment - Dimensions of mechanical structures of the 482,6 mm (19 in) series

IEC 60300 Dependability management

IEC 60332-1-1 Tests on electric and optical fibre cables under fire conditions - Part 1-1: Test for vertical flame propagation for a single insulated wire or cable – Apparatus

IEC 60332-1-2 Tests on electric and optical fibre cables under fire conditions - Part 1-2: Test for vertical flame propagation for a single insulated wire or cable - Procedure for 1 kW pre-mixed flame

IEC 60332-1-3 Tests on electric and optical fibre cables under fire conditions - Part 1-3: Test for vertical flame propagation for a single insulated wire or cable - Procedure for determination of flaming droplets/particles

IEC 60332-2-1 Tests on electric and optical fibre cables under fire conditions - Part 2-1: Test for vertical flame propagation for a single small insulated wire or cable - Apparatus



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

IEC 60332-2-2 Tests on electric and optical fibre cables under fire conditions - Part 2-2: Test for vertical flame propagation for a single small insulated wire or cable - Procedure for diffusion flame

IEC 60332-3-10 Tests on electric cables under fire conditions - Part 3-10: Test for vertical flame spread of vertically-mounted bunched wires or cables - Apparatus

IEC 60352-1 Solderless connections - Part 1: Wrapped connections - General requirements, test methods and practical guidance

IEC 60352-2 Solderless connections - Part 2: Crimped connections - General requirements, test methods and practical guidance

IEC 60359 Electrical and electronic measurement equipment - Expression of performance

IEC 60364 Low voltage Electrical Installations Rules

IEC 60364-4-41 Low-voltage electrical installations - Part 4-41: Protection for safety - Protection against electric shock

IEC 60439-1 Low-Voltage switchgear and control gear assemblies. Part 1: Type tested and partially type-tested assemblies

IEC 60446 Basic and safety principles for man-machine interface, marking and identification – Identification of conductors by colours or alphanumeric

IEC 60470 High-voltage alternating current contactors and contactor-based motor-starters

IEC 60479-1 Effects of current on human beings and livestock – Part 1: General aspects

IEC 60529 Degrees of protection provided by enclosures (IP code)

IEC 60654-2 Operating conditions of measurement, control equipment in industrial processes

IEC 60671 Nuclear power plants - Instrumentation and control systems important to safety - Surveillance testing

IEC 60695-11-20 Fire hazard testing - Part 11-20: Test flames - 500 W flame test methods

IEC 60706 Maintainability of equipment

IEC 60721 Classification of environmental classes and severity levels



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

IEC 60725 Reference impedance for LV power lines

IEC 60780 Nuclear power plants - Electrical equipment of the safety system – Qualification

IEC 60811-1-2 Insulating and sheathing materials of electric cables – common test methods Part 1-2: Method for general application- thermal ageing method

IEC 60880 Nuclear power plants - Instrumentation and control systems important to safety - Software aspects for computer-based systems performing category A functions

IEC 60909-0 Short-circuit currents in three-phase ac systems - Part 0: Calculation of currents

IEC 60947-2 Low voltage switchgear and control gear – Part 2: Circuit Breakers.

IEC 60947-3 Low voltage switchgear and control gear – Part 3: Switches, disconnectors, switch-disconnectors and fuse combination units.

IEC 60947-4-1 Low voltage switchgear and control gear – Part 4-1: Contactors and motors starters- Electromechanical contactors and motor starters

IEC 60964 Design for control rooms of nuclear power plants

IEC 60980 Recommended practices for seismic qualification of electrical equipment of the safety system for nuclear generating stations

IEC 61000-1 Electromagnetic compatibility. General considerations

IEC 61000-1-2 Methodology to achieve functional safety on E/E equipment

IEC 61000-2-10 Description of HEMP environment - Conducted disturbance

IEC 61000-2-11 Environment - Classification of HEMP environments

IEC 61000-2-12 Compatibility levels for low frequency conducted disturbances and signalling in public medium voltage power supply systems

IEC 61000-2-13 Environment - High-power electromagnetic (HPEM) environments - Radiated and conducted

IEC 61000-2-2 Compatibility levels in public LV power systems

IEC 61000-2-3 Description, radiated and non-network frequency conducted disturbances



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

IEC 61000-2-4 Compatibility levels in industrial plants

IEC 61000-2-5 Classification of the EM environments

IEC 61000-2-7 Low frequency magnetic fields in various environments

IEC 61000-2-8 Voltage dips, short interruptions

IEC 61000-2-9 Description of HEMP environment - Radiated disturbance

IEC 61000-3 Emission variations distribution networks

IEC 61000-4 Immunity tests

IEC 61000-4-7 Measurement techniques. Harmonics

IEC 61000-5 Installation and mitigation guidelines. Protection degree

IEC 6100-6-2 Generic standard Industrial environmental immunity

IEC 6100-6-4 Generic standard Industrial environmental emissions

IEC 61014 Programs for reliability growth

IEC 61024-1-1 Protection against lightning - Part 1: General principles

IEC 61024-1-2 Protection against lightning - Part 3: Physical damage to structures and life hazard

IEC 61124 Reliability testing - Compliance tests for constant failure rate and constant failure intensity

IEC 61131-2 Programmable controllers - Part 2: Equipment requirements and tests

IEC 61160 Design review

IEC 61163 Reliability stress screening

IEC 61165 Application of Markov Techniques

IEC 61180-1 High-voltage test techniques for low voltage equipment – Part 1: Definitions, test and procedure requirements

IEC 61189 Test methods for electrical materials, interconnection structures and assemblies



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

IEC 61225 Safety Instrumented systems for process industry

IEC 61226 Nuclear Power Plants - Instrumentation and Control Systems Important to Safety -
Classification of Instrumentation and Control Functions

IEC 61227 Nuclear power plants - Control rooms – Operator controls

IEC 61312-1 Protection against lightning - Part 4: Electrical and electronic systems within structures

IEC 61312-4 Protection against lightning - Part 4: Electrical and electronic systems within structures

IEC 61326 Electrical equipment for measurement control and laboratory use

IEC 61508-1 through -7 Functional safety of electrical electronic/electronic programmable safety

IEC 61513 Nuclear power plants - Instrumentation and control for systems important to safety -
General requirements for systems

IEC 61662 Protection against lightning - Part 2: Risk management

IEC 61709 Reference conditions for failure rates and stress models for conversions

IEC 61771 Nuclear power plants - Main control-room - Verification and validation of design

IEC 61772 Nuclear power plants - Main control room - Application of visual display units (VDU)

IEC 61936-1 Electrical Installations of nominal voltage above 1 kV in AC

IEC 62138 Nuclear power plants - Instrumentation and control important for safety - Software aspects
for computer-based systems performing category B or C functions

IEC 62262 Degrees of protection provided by enclosures for electrical equipment against external
mechanical impacts (IK codes)

IEC 62271-100 High-voltage switchgear and control gear - Part 100: High-voltage alternating-current
circuit-breakers

IEC 62271-200 High-voltage switchgear and control gear - Part 200: AC metal-enclosed switchgear and
control gear for rated voltages above 1 kV and up to and including 52 kV

IEC 62308 Reliability assessment methods



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

IEC 62347 Guidance on system dependability specifications

IEC 62429 Reliability growth – Stress testing for early failures in unique complex systems

IEC 964 Design for Control Rooms of Nuclear Power Plants

IEC Std. 60034-1 Rotating Electrical Machines (Part 1, Section 3, Clause 3.2.1 and Figure 1) with amendment 1

IEC Std. 60050-411 International Electrotechnical Vocabulary (Chapter 411, Sections 411-33-07 and 411-37-26)

IEC Std. 60072-1 Dimensions and Output Series for Rotating Electrical Machines (Part 1, Frame Numbers 56 to 400 and Flange Numbers 55 to 1080, Clauses 2, 3, 4.1, 6.1, 7, and 10 and Tables 1, 2, and 4)

IEC Std. 705 Methods for Measuring the Performance of Microwave Ovens for Household and Similar Purposes, Section 4, Paragraph 13, Electrical Power Input Measurement and Paragraph 14, Efficiency

IEC/TS 61000-6-5 Electromagnetic compatibility (EMC) - Part 6-5: Generic standards - Immunity for power station and substation environments

IECC International Energy Conservation Code

IEEE 1012 IEEE Standard for System and Software Verification and Validation

IEEE 1012-2004 (Revision of IEEE Std 1012-1998) System, Software, and Hardware Verification and Validation - IEEE Computer Society

IEEE 1015 Recommended Practice for Applying Low-Voltage Circuit Breakers Used in Industrial and Commercial Power Systems (IEEE Blue Book)

IEEE 1016.1-1993 IEEE Guide to Software Design Descriptions

IEEE 1016-1987 IEEE Recommended Practice for Software Design Descriptions

IEEE 1023 Guide for the Application of Human Factors Engineering to Systems, Equipment, and Facilities of Nuclear Power Generating Stations

IEEE 1023-2004 IEEE Recommended Practice for the Application of Human Factors Engineering to Systems, Equipment, and Facilities of Nuclear Power Generating Stations and Other Nuclear Facilities



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

- IEEE 1046 Application Guide for Distributed Digital Control and Monitoring for Power Plants
- IEEE 1048-2016 (Revision of IEEE Std 1048-2003) Guide for Protective Grounding of Power Lines
- IEEE 1050 Guide for Instrumentation and Control Equipment Grounding in Generating Stations
- IEEE 1058 IEEE Standard for Software Project Management Plans
- IEEE 1063-1987 IEEE Standard for Software User Documentation
- IEEE 1074-1991 IEEE Standard for Developing Software Life Cycle Processes
- IEEE 1076.3-1997 Standard VHDL Synthesis Packages
- IEEE 1076-2000 VHDL Language Reference Manual - IEEE Computer Society
- IEEE 1076-2008 (Revision of IEEE 1076-2002) VHDL Language Reference Manual - IEEE Computer Society
- IEEE 1082-1997 Guide for Incorporating Human Action Reliability Analysis for Nuclear Power Generating Stations
- IEEE 1100 Recommended Practice for Powering and Grounding Electronic Equipment-IEEE Emerald Book
- IEEE 1100-1992 IEEE Recommended Practice for Powering and Grounding Sensitive Electronic Equipment
- IEEE 1106-2015 (Revision of IEEE Std 1106-2005) Recommended Practice for Installation, Maintenance, Testing, and Replacement of Vented Nickel- Cadmium Batteries for Stationary Applications
- IEEE 112 Test Procedure for Polyphase Induction Motors and Generators, Test Method B, with corrections to item 28 in section 10.2, Form B
- IEEE 1139 Definitions of Physical Quantities for Fundamental Frequency and Time Metrology-Random Instabilities
- IEEE 1149.1-2013 IEEE Standard for Test Access Port and Boundary-Scan Architecture
- IEEE 1159-2009 IEEE Recommended Practice for Monitoring Electric Power Quality



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

IEEE 1184-2006 (Revision of IEEE 1184-1994) Guide for Batteries for Uninterruptible Power Supply Systems

IEEE 120-1955; ASME PTC 19.6-1955 Electrical Power Measurements

IEEE 1219-1992 IEEE Standard for Software Maintenance

IEEE 12207-2018 Systems and software engineering - Software life cycle processes - First Edition

IEEE 1233, 1998 Edition Guide for Developing System Requirements Specifications - Includes 1233-1996 and 1233a-1998; IEEE Computer Society Document

IEEE 1241-2000 IEEE Standard for Terminology and Test Methods for Analog-To-Digital Converters

IEEE 1241-2010 (Revision of IEEE Std 1241-2000) Terminology and Test Methods for Analog-to-Digital Converters

IEEE 1313.2-1999 IEEE Guide for the Application of Insulation Coordination

IEEE 1362-1998 Guide for Information Technology - System Definition - Concept of Operations (ConOps) Document - IEEE Computer Society Document; Incorporates IEEE 1362a-1998

IEEE 1366-2012 IEEE Guide for Electric Power Distribution Reliability Indices

IEEE 141 Recommended Practice for Electric Power Distribution for Industrial Plants

IEEE 142 Recommended Practice for Grounding of Industrial and Commercial Power Systems

IEEE 15288.1-2014 Application of Systems Engineering on Defense Programs - IEEE Computer Society

IEEE 1547.1A-2015 (Amendment to IEEE Std 1547.1-2005) Standard Conformance Test Procedures for Equipment Interconnecting Distributed Resources with Electric Power Systems Amendment 1

IEEE 1547.2-2008 IEEE Application Guide for IEEE Std 1547(TM), IEEE Standard for Interconnecting Distributed Resources with Electric Power Systems

IEEE 1547-2018 Interconnection and Interoperability of Distributed Energy Resources with Associated Electric Power Systems Interfaces

IEEE 1584.1-2013 Specification of Scope and Deliverable Requirements for an Arc-Flash Hazard Calculation Study in Accordance with IEEE Std 1584™



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

IEEE 1584-2002 IEEE Guide for Performing Arc Flash Hazard Calculations

IEEE 1584B-2011 (Amendment to IEEE Std 1584-2002)

IEEE 1633-2016 Recommended Practice on Software Reliability

IEEE 1667-2009 (Revision of IEEE Std 1667-2006) Discovery, Authentication, and Authorization in Host Attachments of Storage Devices - IEEE Computer Society

IEEE 169-1955 IEEE Standards on Industrial Electronics: Definitions of Industrial Electronics Terms, 1955

IEEE 1707-2015 IEEE Recommended Practice for the Investigation of Events at Nuclear Facilities

IEEE 1800-2012 (Revision of IEEE Std 1800-2009) System Verilog-Unified Hardware Design, Specification, and Verification Language - IEEE Computer Society

IEEE 1815.1-2011 Synchrophasor Measurements for Power Systems

IEEE 1852-2016 (Incorporating IEEE Std 1858-2016/Cor 1-2017) Camera Phone Image Quality - Incorporating Corrigendum 1: 2017

IEEE 1862-2014 IEEE Recommended Practice for Overvoltage and Insulation Coordination of Transmission Systems at 1000 kV AC and Above

IEEE 200 Reference Designators

IEEE 20000-1-2013 Information Technology - Service Management - Part 1: Service Management System Requirements

IEEE 242 Recommended Practice for Protection and Coordination of Industrial and Commercial Power Systems

IEEE 24748-2-2012 Guide-Adoption of ISO/IEC TR 24748-2:2011 Systems and Software Engineering-Life Cycle Management-Part 2: Guide to the Application of ISO/IEC 15288 (System Life Cycle Processes) - IEEE Computer Society

IEEE 268 Standard Metric Practice

IEEE 279 Criteria for Protection Systems for Nuclear Power Generating Stations (replaced by IEEE 603) (Inactive)



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

IEEE 295-1969 IEEE Standard for Electronics Power Transformers

IEEE 30001.5-2013 IEEE Recommended Practice for the Application of Power Distribution Apparatus in Industrial and Commercial Power Systems

IEEE 3001.8-2013 IEEE Recommended Practice for the Instrumentation and Metering of Industrial and Commercial Power Systems

IEEE 308 Standard Criteria for Class IE Power Systems for Nuclear Power Generating Stations

IEEE 315 Graphic Symbols for Electrical and Electronics Diagrams

IEEE 317 Standard for Electrical Penetration Assemblies in Containment Structures for Nuclear Power Generating Stations

IEEE 323 Standard for Qualifying Class IE Equipment for Nuclear Power Generating Stations

IEEE 336 Standard Installation, Inspection, and Testing Requirements for Power, Instrumentation and Control Equipment at Nuclear Facilities

IEEE 338 Standard Criteria for the Periodic Surveillance Testing of Nuclear Power Generating Station Safety Systems

IEEE 344 Recommended Practices for Seismic Qualification of Class IE Equipment for Nuclear Power Generating Stations

IEEE 352 Guide for General Principles of Reliability Analysis of Nuclear Power Generating Station Protection Systems

IEEE 379 Standard Application of the Single-Failure Criterion to Nuclear Power Generating Station Safety Systems

IEEE 382 Standard for Qualification of Actuators for Power Operated Valve Assemblies with Safety Related Functions for Nuclear Power Plants

IEEE 384 Standard Criteria for Independence of Class IE Equipment and Circuits

IEEE 386 IEEE Standard for Separable Insulated Connector Systems for Power Distribution Systems Above 600V

IEEE 387 Criteria for Diesel Generator Units Applied as Standby Power Supplies for Nuclear Power Generating Stations



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

IEEE 388-1992 IEEE Standard for Transformers and Inductors in Electronic Power Conversion Equipment

IEEE 389 Installed Radiation Protection Instrumentation

IEEE 399 Recommended Practice for Industrial and Commercial Power System Analysis

IEEE 420 Design and Qualification of Class 1E Control Boards, Panels, and Racks Used in Nuclear Power Generating Stations

IEEE 4-2013 IEEE Standard for High-Voltage Testing Techniques

IEEE 421.5-2016 (Revision of IEEE Std 421.5-2005) Recommended Practice for Excitation System Models for Power System Stability Studies

IEEE 446 Recommended Practice for Emergency and Standby Power for Industrial and Commercial Applications

IEEE 446-1995 Recommended Practice for Emergency and Standby Power Systems for Industrial and Commercial Applications - IEEE Orange Book (Color Book Series)

IEEE 45.2-2011 Recommended Practice for Electrical Installations on Shipboard—Controls and Automation

IEEE 450 Recommended Practice for Maintenance, Testing, and Replacement of Large Lead Storage Batteries for Generating Stations and Substations

IEEE 484 Recommended Practice for Installation Design and Installation of Vented Lead-Acid Batteries for Stationary Applications

IEEE 485 Recommended Practice for Sizing Lead-Acid Batteries for Stationary Applications

IEEE 488.2-1992 Standard Digital Interface for Programmable Instrumentation Part 2: Codes, Formats, Protocols And Common Commands

IEEE 493 Recommended Practice for the Design of Reliable Industrial and Commercial Power Systems

IEEE 498 Standard Requirements for the Calibration and Control of Measuring and Test Equipment Used in Nuclear Facilities

IEEE 4a Amendment to IEEE Standard Techniques for High-Voltage Testing



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

IEEE 500 IEEE Guide to the Collection and Presentation of Electrical, Electronic, Sensing Component, and Mechanical Equipment Reliability Data for Nuclear Power Generating Stations

IEEE 539-1990 IEEE Standard Definitions of Terms Relating to Corona and Field Effects of Overhead Power Lines

IEEE 567 Trial Use Standard Criteria for the Design of The Control Room Complex

IEEE 576 Recommended Practice for Installation, Termination, and Testing of Insulated Power Cable as Used in Industrial and Commercial Applications

IEEE 577 Standard Requirements for Reliability Analysis in The Design and Operation of Safety Systems for Nuclear Power Generating Stations

IEEE 583-1975 IEEE Standard Modular Instrumentation and Digital Interface System (CAMAC)

IEEE 597-1983 IEEE Standard Practices and Requirements for General Purpose Thyristor DC Drives

IEEE 602 Recommended Practice for Electrical Systems in Health Care Facilities

IEEE 603 Standard Criteria for Safety Systems for Nuclear Power Generating Stations

IEEE 610.12 Systems and software engineeringin - Vocabulary

IEEE 610.12-1990 IEEE Standard Glossary of Software Engineering Terminology

IEEE 62.2-2004 IEEE Guide for Diagnostic Field Testing of Electric Power Apparatus - Electrical Machinery

IEEE 628 Criteria for the Design, Installation, and Qualification of Raceway Systems for Class 1E Circuits for Nuclear Power Generating Stations

IEEE 730 Standard for Software Quality Assurance Plan

IEEE 738-2006 IEEE Standard for Calculating the Current-Temperature of Bare Overhead Conductors

IEEE 739 Recommended Practice for Energy Conservation and Cost-Effective Planning in Industrial Facilities

IEEE 80 Guide for Safety in AC Substation Grounding

IEEE 80-1976 IEEE Guide for Safety in Substation Grounding



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

IEEE 802.15.4-2015 (Revision of IEEE Std 802.15.4-2011) Low-Rate Wireless Networks - IEEE Computer Society

IEEE 802.1AB-2016 IEEE Standard for Local and metropolitan area networks - Station and Media Access Control Connectivity Discovery

IEEE 802.1Q-2014 IEEE Standard for Local and metropolitan area networks--Bridges and Bridged Networks

IEEE 802.3-2005 (Revision of IEEE Std 802.3-2002 Including all approved amendments) Information Technology - Telecommunications and Information Exchange Between Systems - Local and Metropolitan Area Networks - Specific Requirements - Part 3:

IEEE 802.3ba-2010 (Amendment to IEEE Standard 802.3-2008) [IEEE 802.3ba] IEEE Std. 802.3ba-2010, Information Technology – Local and Metropolitan Area Networks – Part 3: Carrier Sense Multiple Access with Collision Detection (CSMA/CD) Access Method and Physical Layer Specifications
IEEE 802.3bm-2015 (Amendment to IEEE Std 802.3-2012 as amended by IEEE Std 802.3bk-2013 and IEEE Std 802.3bj-2014) IEEE Standard for Ethernet - Amendment 3: Physical Layer Specifications and Management Parameters for 40 Gb/s and 100 Gb/s Operation over Fiber Optic Cables

IEEE 802.3u-1995 (Supplement to ISO/IEC 8802-3: 1993; ANSI/IEEE Std 802.3, 1993 Edition) Type 100BASE-T MAC parameters, Physical Layer, MAUs, and Repeater for 100 Mb/s Operation

IEEE 828 Standard for Configuration Management in Systems and Software Engineering

IEEE 828 Standard for Software Configuration Management Plans

IEEE 829 Standard for Software Test Documentation

IEEE 833 Recommended Practice for the Protection of Electric Equipment in Nuclear Power Generating Stations from Water Hazards

IEEE 837 Qualifying Permanent Connections Used in Substation Grounding

IEEE 845 Guide for the Evaluation of Human-System Performance in Nuclear Power Generating Stations

IEEE 902-1998 Guide for Maintenance, Operation, and Safety of Industrial and Commercial Power Systems

IEEE 946 Recommended Practice for the Design of DC Auxiliary Power Systems for Generating Systems



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

IEEE 980-1994 Guide for Containment and Control of Oil Spills in Substations

IEEE C2 National Electrical Safety Code

IEEE C37 Circuit Breakers, Switchgear, Relays, Substations and Fuses—Series

IEEE C37.102-2006 (Revision of IEEE Std C37.102-1995) IEEE Guide for AC Generator Protection

IEEE C37.112-1996 Inverse-Time Characteristic Equations for Overcurrent Relays

IEEE C37.118.1a-2014 (Amendment to IEEE Std C37.118.1-2011) Synchrophasor Measurements for Power Systems Amendment 1: Modification of Selected Performance Requirements

IEEE C37.118.2-2011 (Revision of IEEE Std C37.118-2005) Synchrophasor Data Transfer for Power Systems

IEEE C37.2-2008 (Revision of IEEE Std C37.2-1996) Electrical Power System Device Function Numbers, Acronyms, and Contact Designations

IEEE C37.30-1997 Standard Requirements for High-Voltage Switches

IEEE C37.48-2005 (Revision of IEEE Std C37.48-1997) Guide for the Application, Operation, and Maintenance of High-Voltage Fuses, Distribution Enclosed Single-Pole Air Switches, Fuse Disconnecting Switches, and Accessories

IEEE C37.91 Guide for Protective Relay Applications to Power Transformers

IEEE C57 (Series) Standard General Requirements for Liquid-Immersed Distribution, Power, and Regulating Transformers

IEEE C57.104-2008 (Revision of IEEE Std C57.104-1991) - Redline Guide for the Interpretation of Gases Generated in Oil-Immersed Transformers

IEEE C57.12.90-2010 IEEE Standard Test Code for Liquid-Immersed Distribution, Power, and Regulating Transformers

IEEE C57.140-2006 Guide for Evaluation and Reconditioning of Liquid Immersed Power Transformers

IEEE C57.18-10-1998 Guide for the Reclamation of Mineral Insulating Oil and Criteria for Its Use

IEEE C57.637-2015 (Revision of IEEE Std 637-1985) Guide for the Reclamation of Mineral Insulating Oil and Criteria for Its Use



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

IEEE C62 (Series) Standards for Surge Arresters for AC Power

IEEE C95.7 Recommended Practice for Radio Frequency Safety Programs, 3 kHz to 300 GHz

IEEE Institute of Electrical and Electronics Engineers Code

IEEE N323C-2009 (New Standard) Radiation Protection Instrumentation Test and Calibration-Air Monitoring Instruments

IEEE N42.20 American National Standard Performance Criteria for Active Personnel Radiation Monitors

IEEE P1057/D8, June 2017 Digitizing Waveform Recorders
IEEE P1856 Prognostics and Health Management of Electronic Systems

IEEE P802.1Q_Cor1/D1.0 July 2015 IEEE Draft Standard for Local and Metropolitan Area Networks -- Bridges and Bridged Networks - Corrigendum 1: Technical and Editorial Corrections

IEEE SI-1 0 Standard for Use of the International System of Units (SI): The Modern Metric System

IEEE Y32.9 Graphic Symbols for Electrical and Wiring Diagrams Used in Architecture and Building Construction

IEEE/ANSI-1377/C12 IEEE/ANSI Standard for Utility Industry End Device Data Tables

IEEE-100 Standard Dictionary of Electrical and Electronics Terms, Sixth Edition

IEEE-1036 Guide for Application of Shunt Power Capacitors

IEEE-1048 Guide for Protective Grounding of Power Lines

IEEE-1217 Guide for Preservative Treatment of Wood Distribution and Transmission Line Structures

IEEE-1220-2005 Standard for Application and Management of the System Engineers Process

IEEE-1243 Guide for Improving the Lighting Performance of Transmission Lines

IEEE-1313.1 Standard for Insulation Coordination- Definitions, Principals, and Rules

IEEE-1366 Trial-Use Guide for Electric Power Distribution Reliability Indices



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

IEEE-1390.2 Standard for Automatic Meter Reading Via Telephone - Network to Telemetry Interface Unit

IEEE-1402 Guide for Electrical Power Substation Physical and Electronic Security

IEEE-141 (RED BOOK) Recommended Practice for Electric Power Distribution for Industrial Plants

IEEE-1410 Guide for Improving the Lighting Performance of Electric Power Overhead Distribution Lines

IEEE-1584 Guide for Performing Arc-Flash Hazard Calculations

IEEE-241 (GRAY BOOK) Recommended Practice for Electric Power Systems in Commercial Buildings

IEEE-32 Standard Requirements, Terminology, and Test Procedure for Neutral Grounding Devices

IEEE-367 Recommended Practice for Determining the Electric Power Station Ground Potential Rise and Induced Voltage from a Power Fault

IEEE-400 Guide for Field Testing and Evaluation of the Insulation of Shielded Power Cable Systems

IEEE-404 Standard for Cable Joints for Use with Extruded Dielectric Cable Rated 5000-138 000 V and Cable Joints for Use with Laminated Dielectric Cable Rated 2500-500 000 V

IEEE-442 Guide for Soil Thermal Resistivity Measurements

IEEE-450 Recommended Practice for Maintenance, Testing, and Replacement of Vented Lead-Acid Batteries for Stationary Applications

IEEE-516 Guide for Maintenance Methods on Energized Power Lines

IEEE-519 Recommended Practice for Determining the Electric Power Station Ground Potential Rise and Induced Voltage from a Power Fault

IEEE-524a Guide to Grounding During the Installation of Overhead Transmission Line Conductors

IEEE-605 Guide for Design of Substation Rigid-Bus Structures

IEEE-738 Standard for Calculating the Current-Temperature of Bare Overhead Conductors

IEEE-835 Standard for Cable Ampacities



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

IEEE-978 Guide for In-Service Maintenance and Electrical Testing of Live-Line Tools

IEEE-979 Guide for Substation Fire Protection

IEEE-998 Guide for Direct Lighting Stroke Shielding of Substations

IEEE-C36.1 Standard for SCADA and Automation Systems

IES Handbook Reference and Application, 8th Edition, Chapter 6, Light Sources

IES RP-20-14 Lighting for Parking Facilities

IES-LM-16 IES Practical Guide to Colorimetry of Light Sources

IES-LM-20 IES Approved Method for Photometric Measuring and Reporting Test on Reflector Type Lamps

IES-LM-45 IES Approved Method for Electrical and Photometric Measurements of General Service Incandescent Filament Lamps

IES-LM-58 IES Guide to Spectroradiometric Measurements

IES-LM-66 IES Approved Method for the Electrical and Photometric Measurements of Single-Ended Compact Fluorescent Lamps

IES-LM-9 Approved Method for the Electrical and Photometric Measurements of Fluorescent Lamps

IESNA RP8 Roadway Lighting, Practice for

IMC International Mechanical Code

IMDG International Maritime Dangerous Goods

INPO 97-013 Guidance for Developing and Implementing an On-Line Maintenance Strategy

Instrument Society of America (ISA) S5.1 Instrumentation Symbols & Ident, 1993

Instrument Society of America (ISA) S5.4 Instrumentation Loop Symbols, 1996

International Building Code (IBC) 2009 (Exceptions: Replace all references to the ICC Electrical Code with the NFPA 70 National Electric Code, latest edition; All appendices; See additional exceptions identified in the WSS ID Team Report, Attachment B IBC matrix)



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

International Fire Code (IFC) 2009 (Include Appendix B through I as reference only; Exception: Appendix A – Board of Appeals)

International Fuel Gas Code (IFGC) 2009 (Include Appendix B through I as reference only)

International Plumbing Code (IPC) 2009 (Include Appendix B through G as reference only)

IPC 2220 2220 Series of Design Documents

IPC 2221 Generic Standard on Printed Board Design

IPC 2222 Sectional Design Standard for Rigid Organic Printed Boards

IPC 4203 Cover and Bonding Material for Flexible Printed Circuitry

IPC 4204 Flexible Metal-Clad Dielectrics for Use in Fabrication of Flexible Printed Circuitry

IPC CM-770 Guidelines for Printed Board Component Mounting

IPC D-325 Documentation Requirements for Printed Boards, Assemblies and Support Drawings

IPC International Plumbing Code

IPC J-STD-001 Requirements for Soldered Electrical and Electronic Assemblies

IPC RB-276 Qualification and Performance Specification for Rigid Printed Boards

IPC SM-840 Qualification and Performance Specification of Permanent Solder Mask and Flexible Cover Materials

IPC T-50 Terms and Definitions for Interconnecting and Packaging Electronic Circuits

IPC-A-600 Printed Wiring Boards (Fabrication)

IPC-A-610E Acceptability of Electronic Assemblies

IPC-D-275 Circuit Card Assemblies

ISA 18.2 Management of Alarm Systems for the Process Industries

ISA 5.1 Instrumentation Symbols and Identification



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ISA 5.2 Binary Logic Diagrams for Process Operations

ISA 5.3 Graphic Symbols for Distributed Control/Shared Display Instrumentation, Logic and Computer Systems

ISA 67.04 Setpoints for Nuclear Safety-Related Instrumentation

ISA 84.00.01 Functional Safety: Safety Instrumented Systems for the Process Industry Sector

ISA 84.00.06 Safety Fieldbus Design Considerations for Process Industry Sector Applications

ISA S5.4 Instrument Loop Diagrams

ISA S5.5 Graphic Symbols for Process Displays

ISA Standards and Practices for Instrumentation (published by the Instrumentation, Systems, and Automation Society)

ISDSI 102 Installation Standard for Insulated Steel Door Systems

ISEA Z358.1 American National Standard for Emergency Eyewash and Shower Equipment

ISISA S5.3 Graphic Symbols for Distributed and Control/Shared Display Instrumentation, Logic, and Computer Systems

ISO 10149 (High Sierra Standard): Yellow Book, CD-ROM, Read Only Memory and CD-ROM XA, Extended Architecture

ISO 12083 Electronic Manuscript Preparation and Markup

ISO 13528:2005-09-01 Statistical Methods for use in proficiency testing by inter laboratory comparisons

ISO 14001 Plus Environmental Management System Manual Program Description

ISO 14001.1 Environmental Management Systems—Specification with Guidance for Use

ISO 14004 Environmental Management Systems General Guidelines on Principles, Systems, and Supporting Techniques

ISO 14010.1 Guidelines for Environmental Auditing—General Principles



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ISO 14011/1.2 Guidelines for Environmental Auditing—Audit Procedures—Part 1: Auditing of Environmental Management Systems

ISO 14012.1 Guidelines for Environmental Auditing—Qualification Criteria for Environmental Auditors

ISO 1677 Sealed Radioactive Sources: General

ISO 18911:2000(E) Imaging materials - Processed safety photographic films - storage practices

ISO 4037 X and Gamma Reference Radiation for Calibrating Dosimeters and Dose Rate meters and for Determining Their Response as a Function of Photon Energy

ISO 43-1 Proficiency testing by interlaboratory comparisons -- Part 1: Development and operation of proficiency testing schemes

ISO 43-2 Proficiency testing by interlaboratory comparisons - Part 2: Selection and use of proficiency testing schemes by laboratory accreditation bodies

ISO 4341 Magnetic Tape Cassette and Cartridge Labeling and File Structure for Information Exchange

ISO 4826 Sealed Radioactive Sources: Leak Test Methods

ISO 646 Seven-Bit Coded Character Set for Information Exchange

ISO 6980 Reference Data Radiations for Calibrating Dosimeters and Dose Rate meters and for Determining Their Responses as a Function of Beta Radiation Energy

ISO 7503-1 Evaluation of Surface Contamination—Part 1: Beta-Emitters (Maximum Beta Energy Greater Than 0.15 MeV) and Alpha-Emitters

ISO 7503-2 Evaluation of Surface Contamination—Part 2: Tritium Surface Contamination

ISO 8194 Radiation Protection Clothing for Protection Against Radioactive Contamination Design, Selection, Testing and Use

ISO 8529 Neutron Reference Radiations for Calibrating Neutron - Measuring Devices Used for Radiation Protection Purposes and for Determining Their Response as a Function of Neutron Energy

ISO 8632 Computer Graphics—Metafile for the Storage and Transfer of Picture Description Information



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ISO 8769 Reference Sources for the Calibration of Surface Contamination Monitors — Beta - Emitters (Maximum Beta Energy Greater Than 0.15 Me V) and Alpha Emitters

ISO 8824 Information Technology—Open Systems Interconnection—Specification of Abstract Syntax Notation One (ASN.1)

ISO 8825 Information Technology—Open Systems Interconnection—Specification of Basic Encoding Rules for Abstract Syntax Notation One (ASN.1)

ISO 8879 Information Processing—Text and Office Systems—Standard Generalized Markup Language (SGML)

ISO 9000 Quality Management and Quality Assurance Standards—Guidelines for Selection and Use

ISO 9001 Quality Systems—Model for Quality Assurance in Design/Development, Production, Installation, and Servicing

ISO 9002 Quality Systems—Model for Quality Assurance in Production and Installation

ISO 9003 Quality Systems—Model for Quality Assurance in Final Inspection and Test

ISO 9004 Quality Management and Quality Systems Elements—Guidelines

ISO 9069 Document Interchange Format (SDIF)

ISO 9070 Registration Procedures for SGML Public Text Owner Identifiers

ISO 9660 (High Sierra Standard): Red Book CD-DA, Digital Audio; Green Book, CD-1, Interactive

ISO TR 9573 Techniques for Using SGML

ISO/FDIS 2919 Radiation Protection Sealed Radioactive Sources General Requirements and Classification

ISO/IEC 10036 Procedure for Registration of Glyph and Glyph-Collection Identifiers

ISO/IEC 10744 Information Technology—Hypermedia/Time-Based Structuring Language (HyTime)

ISO/IEC 15288:2008(E) (Revision of IEEE Std 15288-2004) Systems and software engineering - System life cycle processes - Second Edition
ISO/IEC 15408 Security techniques -- Evaluation criteria for IT security-- Part 1: Introduction and general model



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

ISO/IEC 16085:2004(E) IEEE Std 1540-2001 Systems and software engineering Life cycle processes Risk management

ISO/IEC 17025 General Requirements for the Competency of Calibration and Testing Laboratories

ISO/IEC 17025:2005 General Requirements for the Competence of Calibration and Testing Laboratories

ISO/IEC 9541 Font Information Interchange, Parts 1 and 2, Architecture and Interchange Format

ISO/IEC/IEEE 15288 (First edition 2015-05-15) Systems and software engineering - System life cycle processes - First Edition

ISO/IEC/IEEE 15289:2017(E) Systems and software engineering — Content of life-cycle information items (documentation)

ISO/IEC/IEEE 16326 (First edition 2009-12-15) Systems and software engineering - Life cycle processes - Project management

ISO/IEC/IEEE 29148:2011(E) Systems and software engineering - Life cycle processes - Requirements engineering

ISO/IEC/IEEE 8802-1Q First edition 2016-03-15 ISO/IEC/IEEE International Standard - Information technology -- Telecommunications and information exchange between systems -- Local and metropolitan area networks -- Specific requirements -- Part 1Q: Bridges and bridged networks

ISO/IEC/IEEE 8802-1X:2013(E) IEEE/ISO/IEC Information technology -- Telecommunications and information exchange between systems -- Local and metropolitan area networks -- Part 1X: Port-based network access control

ISO/IEC/IEEE 8802-3 ; IEEE Std 802.3-2015 (Revision of IEEE Std 802.3-2012) Information technology - Telecommunications and information exchange between systems - Local and metropolitan area networks - Specific requirements - Part 3:

ISO-9001:2007 Quality Systems-Model for Quality Assessment in Design/Development, Production, Installation and Servicing

ISO-9001:2015 Quality Management Systems - Requirements

ITE & NSC Traffic Engineer's Handbook

LEED U.S. Green Building Council's Rating System for Leadership in Environmental Design (LEED)



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

LPI 175 Standard of Practice for the Design, Installation, Inspection of Lightning Protection Systems

LPI 177 Inspection Guide for LPI Certified Systems

ISO/IEC IEEE Std. 24765-2010 Systems and Software Engineering - Vocabulary

MBMA Metal Building Systems Manual

MCA (now CMA) Chemical Safety Data Sheets

MCA (now CMA) Manual Sheets

Military Specification MIL DTL 43607J Padlock, Key Operated, High Security, Shrouded Shackle

MLSFA Steel Framing Systems Manual

MUTCD Manual on Uniform Traffic Control Devices

NAAMM Metal Finishes Manual

NACE 6A 192 Dehumidification and Temperature Control During Surface Preparation, Application, and Curing for Coatings/Linings of Steel Tanks, Vessels, and Other Enclosed Areas

NACE 6G198 Wet Abrasive Blast Cleaning

NACE 80200 Preparation of Protective Coating Specifications for Atmospheric Service

NACE BOS VOL 1 NACE International BOOK OF STANDARDS Volume 1

NACE BOS VOL 2 NACE International BOOK OF STANDARDS Volume 2

NACE RPO 169-92 National Association of Corrosion Engineers - Control of External Corrosion on Underground or Submerged Piping Systems

NAPHCC National Standard Plumbing Code

Nat. Comm. For Cert. Crane National Commission for the Certification of Crane Operators, Candidate Handbook - Physician Instructions for Medical Examination Operators

National Association of Corrosion Engineers (NACE) RPO 169-92 Control of External Corrosion on Underground or Submerged Piping Systems



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

National Institute of Justice (NIJ) Standard 0101.06 Ballistic Resistance of Body Armor

NBHA General Standards for Builders Hardware

NBIC National Board Inspection Code (for existing and new pressure vessels) (The latest edition of the NBIC is to be used (see NBIC Foreword for specific applicability).

NBIC NB-23 National Board Inspection Code (NBIC)

NCMA TR 75B Specifications for the Design and Construction of Load-Bearing Concrete Masonry

NCMA Waterproof Coatings for Concrete Masonry

NCMA Waterproofing Concrete Masonry Basements and Earth Sheltered Structures

NCRP 102 Medical X-Ray, Electron Beam and Gamma-Ray Protection for Energies Up to 50 MeV (Equipment Design, Performance and Use)

NCRP 106 Limit for Exposure to "Hot Particles" on the Skin

NCRP 116 Limitation of Exposure to Ionizing Radiation

NCRP 161 Management of Persons Contaminated with Radionuclides

NCRP 166 Population Monitoring and Radionuclide Decorporation Following a Radiological or Nuclear Incident

NCRP 30 Safe Handling of Radioactive Materials

NCRP 38 Protection Against Neutron Radiation

NCRP 40 Protection Against Radiation from Brachytherapy Sources

NCRP 49 Structural Shielding Design and Evaluation for Medical Use of X Rays and Gamma Rays of Energies Up to 10 MeV

NCRP 51 Radiation Protection Design Guidelines for 0.1-100 MeV Particle Accelerator Facilities

NCRP 53 Review of NCRP Dose Limit for Embryo and Fetus in Occupationally Exposed Women

NCRP 57 Instrumentation and Monitoring Methods for Radiation Protection



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

NCRP 59 Operational Radiation Safety Program

NCRP 61 Radiation Safety Training Criteria for Industrial Radiography

NCRP 65 Management of Persons Accidentally Contaminated with Radionuclides

NCRP 71 Operational Radiation Safety Training

NCRP 72 Radiation Protection and Measurement for Low-Voltage Neutron Generators

NCRP 84 General Concepts for the Dosimetry of Internally Deposited Radionuclides

NCRP 87 Use of Bioassay Procedures for Assessment of Internal Radionuclide Deposition

NCRP 88 Radiation Alarms and Access Control Systems

NCRP 91 Recommendations on Limits for Exposure to Ionizing Radiation

NCRP-144 Radiation Protection for Particle Accelerator Facilities

NCRP-147 Shielding Calculations

NCRP-156 Development of a Biokinetic Model for Radionuclide-Contaminated Wounds

NCRP-158 Uncertainties in the Measurement and Dosimetry of External Radiation

NCRP-161 Management of Persons Contaminated with Radionuclides

NCRP-166 Population Monitoring and Radionuclide Decorporation Following a Radiological or Nuclear Incident

NCSL RP-1 Recommended Practice RP-1, Establishment and Adjustment of Calibration Intervals

NDIA National Defense Industrial Association (NDIA), Integrated Program Management Division

NEMA 250 Enclosures for Electrical Equipment

NEMA AB 4 Guidelines for Inspection and Preventive Maintenance of Molded Case Circuit Breakers Used in Commercial and Industrial Applications

NEMA C57.12.70 1 Standard Terminal Markings and Connections for Distribution and Power Transformers



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

NEMA C84.1 Electric Power Systems and Equipment - Voltage Ratings (60 Hertz)

NEMA DC 3 No title stated

NEMA ICS Industrial Controls and Systems

NEMA LD 3 High-Pressure Decorative Laminates

NEMA MG-1 Motors and Generators

NEMA MG1 Motors and Generators, Revision 1

NEMA MG10 Energy Management Guide for Selection and Use of Polyphase Motors

NEMA MG11 Energy Management Guide for Selection and Use of Single-Phase Motors

NEMA WC 70 Power Cables Rated 2000 Volts or Less for The Distribution Of Electrical Energy

NEMA Z535.1 Safety Colors

NEMA Z535.4 Product Safety Signs and Labels

NEMA-CP 1 Standards Publication for Shunt Capacitors

NEMA-LA 1 Standards Publication for Surge Arresters

NEMA-MG 1 Standards Publication for Motors and Generators

NEMA-TP 1 Guide for Determining Energy Efficiency for Distribution Transformers

NESC Handbook (sixth edition) Electrical Safety Code(NESC) Handbook

NETA ECS Standard for Electrical Commissioning Specifications for Electrical Power Equipment and Systems

NETA MTS ; ANSI NETA MTS Standard for Maintenance Testing Specifications for Electrical Power Equipment and Systems

NF C 13-200 High Voltage Electrical Installations – Requirements (V<63 kV)

NF C 15-100



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

NF C 15-100 French Standard - Low-Voltage Electrical Installations

NF C 17-100 Protection against Lightning – Protection of structures against Lightning- Installation of lightning Protective System

NF C 32-070 Classification test on cable and cords with respect of the behaviour to fire insulated cables and flexible cords for installations

NF C 93-022 Electronic components-Point-to-point Clip Terminals

NF C04-200 Marking of conductors (status change of the standard NF C 04-200 dated June 1974, ENR)

NF EN 2812-1 Paints and varnishes – determinations of resistance to liquids – Part 1: General methods

NF EN 45014 General Criteria for Supplier’s Declaration of Conformity

NF EN 50110 -1,2 Operation of electrical installations

NF EN ISO 9000-3 Quality assurance and quality management standards – Part 3: Directives for the application of ISO 9001:9004 with reference to the provision, installation and maintenance of software

NF ISO 2859-0 Sample procedures for inspection by attributes. Part 0: Introduction to the ISO 2859 Attribute Sampling System.

NF ISO 3951 Sampling procedures and charts for inspection by variables

NF ISO 9001 Quality management systems – Requirements

NFPA 1 1 A Standard for Medium- and High-Expansion Foam Systems

NFPA 1 Fire Code

NFPA 10 Standard for Portable Fire Extinguishers

NFPA 1000 Standard for Fire Service Professional Qualifications Accreditation and Certification Systems

NFPA 1000-2006 Standard for Fire Service Professional Qualifications Accreditation and Certification Systems

NFPA 1001 Standard for Fire Fighter Professional Qualifications



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

NFPA 1002 Standard for Fire Apparatus Driver/Operator Professional Qualifications

NFPA 1003 Standard for Airport Fire Fighter Professional Qualifications

NFPA 1006 Standard for Rescue Technician Professional Qualifications

NFPA 1006 Standard for Rescue Technician Professional Qualifications 2008

NFPA 101 Code for Safety to Life from Fire in Buildings and Structures

NFPA 101A Alternative Approaches to Life Safety

NFPA 101H Life Safety Code Handbook - Thirteenth Edition

NFPA 101M Manual on Alternative Approaches to Life Safety

NFPA 102 Standard for Assembly Seating, Tents, and Membrane Structures

NFPA 1021 Standard for Fire Officer Professional Qualifications

NFPA 1026 Standard for Incident Management Personnel Professional Qualifications

NFPA 1031 Standard for Professional Qualifications for Fire Inspector

NFPA 1033 Standard for Professional Qualifications for Fire Investigator

NFPA 1035 Standard for Professional Qualifications for Public Fire Educator

NFPA 1037 Standard for Professional Qualifications for Fire Marshall 2007

NFPA 1041 Standard for Fire Service Instructor Professional Qualifications

NFPA 105 Recommended Practice for the Installation of Smoke-Control Door Assemblies

NFPA 1051 Standard for Wildland Fire Fighter Professional Qualifications

NFPA 1051 Standard for Wildland Fire Fighter Professional Qualifications 2007

NFPA 1061 Standard for Professional Qualifications for Public Safety Telecommunicator 2007

NFPA 1071 Standard for Emergency Vehicle Technician Professional Qualifications

NFPA 1071 Standard for Emergency Vehicle Technician Professional Qualifications 2006



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

NFPA 1081 Standard for Industrial Fire Brigade Member Professional Qualifications 2007

NFPA 10H Standard for Portable Fire Extinguishers Handbook

NFPA 10L Model Enabling Act for the Sale or Leasing and Servicing of Portable Fire Extinguishers

NFPA 10R Recommended Practice for Portable Fire Extinguishing Equipment in Family Dwellings and Living Units

NFPA 11 Standard for Low Expansion Foam and Combined Agent Systems

NFPA 110 Standard for Emergency and Standby Power Systems

NFPA 111 Stored Energy Emergency and Standby Power Systems

NFPA 11-2016 Standard for Low Expansion Foam and Combined Agent Systems

NFPA 1122 Code for Unmanned Rockets

NFPA 1123 Code for the Outdoor Display of Fireworks

NFPA 1124 Code for the Manufacture, Transportation, and Storage of Fireworks

NFPA 1125 Code for the Manufacture of Model Rocket Motors

NFPA 1126 Standard for the Use of Pyrotechnics Before a Proximate Audience

NFPA 1141 Standard for Fire Protection in Planned Building Groups

NFPA 1142 Standard on Water Supplies for Suburban and Rural Fire Fighting

NFPA 1143 Standard for Wildland Fire Management

NFPA 1143 Standard for Wildland Fire Management 2009

NFPA 1144 Standard for Reducing Structure Ignition Hazards from Wildland Fire

NFPA 1145 Guide for the Use of Class A Foams in Manual Structural Fire Fighting

NFPA 115 Standard for Laser Fire Protection

NFPA 1150 Standard on Foam Chemicals for Fires in Class A Fuels 2004



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

NFPA 1151 Infrastructure for Land Development in Wildland, Rural, and Suburban Areas

NFPA 1192 Standard on Recreational Vehicles

NFPA 1194 Standard for Recreational Vehicle Parks and Campgrounds

NFPA 11C Standard for Mobile Foam Apparatus

NFPA 12 Standard on Carbon Dioxide Extinguishing Systems

NFPA 120 Standard for Coal Preparation Plants

NFPA 1201 Recommendations for Developing Fire Protection Services for the Public

NFPA 121 Standard on Fire Protection for Self-Propelled and Mobile Surface Mining Equipment

NFPA 122 Standard for the Storage of Flammable and Combustible Liquids Within Underground Metal and Nonmetal Mines

NFPA 1221 Standard for the Installation, Maintenance, and Use of Public Fire Service Communication Systems

NFPA 123 Standard for Fire Prevention and Control in Underground Bituminous Coal Mines

NFPA 1231 Standard on Water Supplies for Suburban and Rural Fire Fighting

NFPA 124 Standard for Fire Protection of Diesel Fuel and Diesel Equipment in Underground Mines

NFPA 1250 Recommended Practice in Emergency Service Organization Risk Management

NFPA 12A Standard on Halon 1301 Fire Extinguishing Systems

NFPA 12B Standard on Halon 1211 Fire Extinguishing Systems

NFPA 13 Installation of Sprinkler Systems (In contract-- via ANSI B30.20): NFPA 13, Installation of Sprinkler Systems)

NFPA 13 Standard for the Installation of Sprinkler Systems

NFPA 130 Standard for Fixed Guideway Transit Systems

NFPA 13A Recommended Practice for the Inspection, Testing, and Maintenance of Sprinkler Systems



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

NFPA 13D Standard for the Installation of Sprinkler Systems in One- and Two- Family Dwellings and Mobile Homes

NFPA 13D-2018/2019 Standard for the Installation of Sprinkler Systems in One and Two-Family Dwellings and Manufactured Homes

NFPA 13DRH Automatic Sprinkler Systems for Residential Occupancies Handbook - Fourth Edition

NFPA 13E Recommendations for Fire Department Operations in Properties Protected by Sprinkler and Standpipe Systems

NFPA 13H Automatic Sprinkler Systems Handbook

NFPA 13R Standard for the Installation of Sprinkler Systems in Residential Occupancies Up To and Including Four Stories in Height

NFPA 13R-2018/2019 Standard for the Installation of Sprinkler Systems in Low-Rise Residential Occupancies

NFPA 14 Installation of Standpipe, Private Hydrants, and Hose Systems (In contract-- via ANSI B30.20):

NFPA 14 Standard for the Installation of Standpipe and Hose Systems

NFPA 140 Standard on Motion Picture and Television Production Studio Soundstages and Approved Production Facilities 2008

NFPA 1401 Recommended Practice for Training Reports and Records

NFPA 1402 Guide to Building Fire Service Training Centers

NFPA 1403 Standard on Live Fire Evolutions in Structures

NFPA 1404 Standard for a Fire Department Self-Contained Breathing Apparatus Program

NFPA 1405 Guide to Land-Based Fire Fighters Who Respond to Marine Vessel Fires

NFPA 1406 Standard for Outside Live Fire Training Evolutions

NFPA 1407 Standard for Fire Service Rapid Intervention Crews

NFPA 1410 Training Standard on Initial Fire Attack



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

NFPA 1451 Standard for a Fire Service Vehicle Operations Training Program

NFPA 1451 Standard for a Fire Service Vehicle Operations Training Program 2007

NFPA 1451 Standard for Fire and Emergency Service Vehicle Operations Training Program

NFPA 1452 Guide for Training Fire Department Personnel to Make Dwellings Fire Safety Surveys

NFPA 1470 Standard on Search and Rescue Training for Structural Collapse Incidents -

NFPA 14A Recommended Practice for the Inspection, Testing, and Maintenance of Standpipe and Hose Systems

NFPA 15 Standard for Water Spray Fixed Systems for Fire Protection

NFPA 15 Water Spray Fixed Systems for Fire Protection (In contract -- via ANSI B30.20)

NFPA 1500 Standard on Fire Department Occupational Safety and Health Program

NFPA 1500H Standard on Fire Department Occupational Safety and Health Program Handbook

NFPA 1521 Standard for Fire Department Safety Officer

NFPA 1561 Standard on Fire Department Incident Management Systems

NFPA 1581 Standard on Fire Department Infection Control Program

NFPA 1582 Standard on Medical Requirements for Fire Fighters

NFPA 1583 Standard on Health-Related Fitness Programs for Fire Fighters

NFPA 1583 Standard on Health-Related Fitness Programs for Fire Fighters 2008

NFPA 1584 Standard on Rehabilitation Process for Members During Emergency Operations and Training Exercises

NFPA 16 Standard for the Installation of Foam-Water Sprinkler and Foam-Water Spray Systems

NFPA 160 Standard for the Use of Flame Effects Before an Audience 2006

NFPA 160 Standard on Flame Affects before a Live Audience



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

NFPA 1600 Standard on Continuity, Emergency, and Crisis Management

NFPA 1620 Recommended Practice for Pre-Incident Planning

NFPA 1670 Standard on Operations and Training for Technical Search and Rescue Incidents

NFPA 1670 Standard on Operations and Training for Technical Search and Rescue Incidents 2004

NFPA 16A Recommended Practice for the Installation of Closed-Head Foam-Water Sprinkler Systems

NFPA 17 Standard for Dry Chemical Extinguishing Systems

NFPA 170 Standard for Fire Safety Symbols

NFPA 1710 Standard for the Organization and Deployment of Fire Suppression Operations, Emergency Medical Operations, and Special Operations to the Public by Career Fire Departments

NFPA 17A Standard for Wet Chemical Extinguishing Systems

NFPA 18 Standard on Wetting Agents

NFPA 1801 Standard on Thermal Imagers for the Fire Services

NFPA 1851 Standard on Selection, Care, and Maintenance of Structural Fire Fighting Protective Ensembles

NFPA 1851 Standard on Selection, Care, and Maintenance of Structural Fire Fighting Protective Ensembles 2008

NFPA 1852 Standard on Selection, Care, and Maintenance of Open-Circuit Self-Contained Breathing Apparatus (SCBA)

NFPA 1855 Standard on Selection, Care, and Maintenance of Protective Ensembles for Technical Rescue Incidents

NFPA 18A Standard on Water Additives for Fire Control and Vapor Mitigation

NFPA 1901 Standard for Pumper Fire Apparatus

NFPA 1902 Standard for Initial Fire Attack Apparatus

NFPA 1903 Standard for Mobile Water Supply Fire Apparatus



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

NFPA 1904 Standard for Aerial Ladder and Elevating Platform Fire Apparatus

NFPA 1906 Standard for Wildland Fire Apparatus

NFPA 1906 Standard for Wildland Fire Apparatus 2006

NFPA 1911 Standard for Service Tests of Pumps on Fire Department Apparatus

NFPA 1911H Standard for the Inspection, Maintenance, Testing, and Retirement of In-Service Automotive Fire Apparatus Handbook

NFPA 1912 Standard for Fire Apparatus Refurbishing

NFPA 1912 Standard for Fire Apparatus Refurbishing 2006

NFPA 1914 Standard for Testing Fire Department Aerial Devices

NFPA 1915 Standard for Fire Apparatus Preventive Maintenance Program

NFPA 1917 Standard for Automotive Ambulances

NFPA 1921 Standard for Fire Department Portable Pumping Units

NFPA 1931 Standard on Design of and Design Verification Tests for Fire Department Ground Ladders

NFPA 1932 Standard on Use, Maintenance, and Service Testing of Fire Department Ground Ladders

NFPA 1936 Standard on Powered Rescue Tools

NFPA 1936 Standard on Powered Rescue Tools 2005

NFPA 1951 Standard on Protective Ensemble for USAR Operations 2007

NFPA 1951 Standard on Protective Ensembles for Technical Rescue Incidents

NFPA 1952 Standard on Surface Water Operations Protective Clothing and Equipment

NFPA 1961 Standard on Fire Hose

NFPA 1962 Standard for the Care, Use, and Service Testing of Fire Hose Including Couplings and Nozzles



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

NFPA 1963 Standard for Screw Threads and Gaskets for Fire Hose Connections

NFPA 1964 Standard for Spray Nozzles (Shut Off and Tip)

NFPA 1965 Fire Hose Appliances

NFPA 1965 Standard for Fire Hose Appliances

NFPA 1965 Standard for Fire Hose Appliances 2003

NFPA 1971 Standard on Protective Clothing for Structural Fire Fighting

NFPA 1972 Standard on Helmets for Structural Fire Fighting

NFPA 1973 Standard on Gloves for Structural Fire Fighting

NFPA 1974 Standard for Protective Footwear for Structural Fire Fighting

NFPA 1975 Standard on Station/Work Uniforms for Fire Fighters

NFPA 1976 Standard on Protective Clothing for Proximity Fire Fighting

NFPA 1977 Standard on Protective Clothing and Equipment for Wildland Fire Fighting

NFPA 1977 Standard on Protective Clothing and Equipment for Wildland Fire Fighting 2005

NFPA 1981 Standard on Open-Circuit Self Contained Breathing Apparatus for Fire Fighters

NFPA 1982 Standard on Personal Alert Safety Systems (PASS) for Fire Fighters

NFPA 1983 Standard on Fire Service Life Safety Rope, Harness, and Hardware

NFPA 1984 Standard on Respirators for Wildland Fire Fighting Operations

NFPA 1989 Standard on Breathing Air Quality for Emergency Services Respiratory Protection

NFPA 1991 Standard on Vapor Protective Suits for Hazardous Chemical Emergencies

NFPA 1992 Standard on Liquid Splash-Protective Suits for Hazardous Chemical Emergencies

NFPA 1993 Standard on Support Function Protective Garments for Hazardous Chemical Operations



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

NFPA 1994 Standard on Protective Ensembles for First Responders to Hazardous Materials and CBRN Terrorism Incidents

NFPA 1999 Standard on Protective Clothing for Emergency Medical Operations

NFPA 1H Fire Code Handbook

NFPA 2 Hydrogen Technologies Code

NFPA 20 Standard for the Installation of Stationary Pumps for Fire Protection

NFPA 2001 Standard on Clean Agent Fire Extinguishing Systems

NFPA 2010 Standard for Fixed Aerosol Fire Extinguishing Systems 2006

NFPA 2012 Standard on Flame-Resistant Garments for Protection of Industrial Personnel Against Flash Fire

NFPA 2013 Standard on Selection, Care, Use, and Maintenance of Flame-Resistant Garments for Protection of Industrial Personnel Against Flash Fire

NFPA 203 Guideline on Roof Coverings and Roof Deck Construction

NFPA 204 Smoke and Heat Venting

NFPA 204M Guide for Smoke and Heat Venting

NFPA 20H Stationary Fire Pump Handbook - Fifth Edition

NFPA 211 Standard for Chimneys, Fireplaces and Vents

NFPA 2112 Standard on Flame-Resistant Clothing for Protection of Industrial Personnel Against Short-Duration Thermal Exposures from Fire

NFPA 2112 Standard on Flame-Resistant Garments for Protection of Industrial Personnel Against Flash Fire 2007

NFPA 211-2015 Standard for Chimneys, Fireplaces, Vents, and Solid Fuel-Burning Appliances

NFPA 2113 Standard on Selection, Care, Use, and Maintenance of Flame-Resistant Garments for Protection of Industrial Personnel Against Short-Duration Thermal Exposures from Fire



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

NFPA 2113 Standard on Selection, Care, Use, and Maintenance of Flame - Resistant Garments for Protection of Industrial Personnel Against Flash Fire 2007

NFPA 214 Standard on Water Cooling Towers

NFPA 22 Standard for Water Tanks for Private Fire Protection

NFPA 220 Standard on Types of Building Construction

NFPA 220H Standard on Types of Building Construction Handbook

NFPA 221 Standard for High Challenge Fire Walls, Fire Walls, and Fire Barrier Walls

NFPA 225 Model Manufactured Home Installation Standard

NFPA 230 Standard for the Fire Protection of Storage

NFPA 231 Standard for General Storage

NFPA 231C Standard for Rack Storage of Materials

NFPA 231D Standard for Storage of Rubber Tires

NFPA 231F Standard for Storage of Roll Paper

NFPA 232 Standard for the Protection of Records

NFPA 232A Guide for Fire Protection for Archives and Records Centers, 1995

NFPA 232AM Manual for Fire Protection for Archives and Record Centers

NFPA 24 Standard for the Installation of Private Fire Service Mains and Their Appurtenances

NFPA 241 Standard for Safeguarding Construction, Alteration, and Demolition Operations

NFPA 24H Standard for the Installation of Private Fire Service Mains and Their Appurtenances Handbook

NFPA 25 Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems

NFPA 251 Standard Methods of Tests of Fire Resistance of Building Construction and Materials



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

NFPA 252 Standard Method of Fire Tests of Door Assemblies

NFPA 253 Standard Method of Test for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source

NFPA 255 Standard Method of Test of Surface Burning Characteristics of Building Materials

NFPA 256 Standard Method of Fire Test of Roof Coverings

NFPA 257 Standard for Fire Tests of Window Assemblies

NFPA 258 Standard Research Test Method for Determining Smoke Generation of Solid Materials

NFPA 259 Standard Test Method for Potential Heat of Building Materials

NFPA 26 Recommended Practice for the Supervision of Valves Controlling Water Supplies for Fire Protection

NFPA 260 Standard Method of Tests and Classification Systems for Cigarette Ignition Resistance of Components of Upholstered Furniture

NFPA 261 Standard Method of Test for Determining Resistance of Mock-Up Upholstered Furniture Material to Ignition by Smoldering Cigarettes

NFPA 262 Standard Method of Test for Fire and Smoke Characteristics of Wires and Cables

NFPA 263 Standard Test for Heat and Visible Smoke Release Rates

NFPA 264 Standard Method of Test for Heat and Visible Smoke Release Rates for Materials and Products Using Oxygen Consumption Calorimeter

NFPA 264A Standard Method of Test for Heat Release Rates of Upholstered Furniture Components or Composites and Mattresses Using an Oxygen Consumption Calorimeter

NFPA 268 Standard Test Method for Determining Ignitibility of Exterior Wall Assemblies Using a Radiant Heat Energy Source

NFPA 269 Standard Test Method for Developing Toxic Potency Data for Use in Fire Hazard Modeling

NFPA 270 Standard Test Method for Measurement of Smoke Obscuration Using a Conical Radiant Source in a Single Closed Chamber



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

NFPA 274 Standard Test Method to Evaluate Fire Performance Characteristics of Pipe Insulation

NFPA 275 Standard Method of Fire Tests for the Evaluation of Thermal Barriers Used Over Foam Plastic Insulation

NFPA 276 Standard Method of Fire Tests for Determining the Heat Release Rate of Roofing Assemblies with Combustible Above-Deck Roofing Components

NFPA 285 Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Non-Load-Bearing Wall Assemblies Containing Combustible Components

NFPA 286 Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth

NFPA 287 Standard Test Methods for Measurement of Flammability of Materials in Cleanrooms Using a Fire Propagation Apparatus (FPA)

NFPA 288 Standard Methods of Fire Tests of Floor Fire Door Assemblies Installed Horizontally in Fire Resistance-Rated Floor Systems

NFPA 289 Standard Method of Fire Test for Individual Fuel Packages

NFPA 290 Standard for Fire Testing of Passive Protection Materials for Use on LP-Gas Containers

NFPA 291 Recommended Practices for Fire Flow Testing and Marking of Hydrants

NFPA 295 Standard for Wildfire Control

NFPA 297 Guide on Telecommunications Systems—Principles and Practices for Rural and Forestry Services

NFPA 298 Standard on Foam Chemicals for Wildland Fire Control

NFPA 299 Standard on Protection of Life and Property from Wildfire

NFPA 3 and 4H-2015 Commissioning and Integrated System Testing Handbook

NFPA 3 Recommended Practice on Commissioning and Integrated Testing of Fire Protection and Life Safety Systems

NFPA 3 Standard for Commissioning of Fire Protection and Life Safety Systems – 2018



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

NFPA 30 Flammable and Combustible Liquids Code

NFPA 302 Fire Protection Standard for Pleasure and Commercial Motor Craft

NFPA 303 Fire Protection Standard for Marinas and Boatyards

NFPA 306 Standard for the Control of Gas Hazards on Vessels

NFPA 307 Standard for the Construction and Fire Protection of Marine Terminals, Piers, and Wharves

NFPA 30A Automotive and Marine Service Station Code

NFPA 30B Code for the Manufacture and Storage of Aerosol Products

NFPA 30H Flammable and Combustible Liquids Code Handbook

NFPA 30H Flammable and Combustible Liquids Code Handbook - Ninth Edition

NFPA 31 Standard for the Installation of Oil Burning Equipment

NFPA 312 Standard for Fire Protection of Vessels During Construction, Repair and Layup

NFPA 318 Standard for the Protection of Semiconductor Fabrication Facilities

NFPA 32 Standard for Dry cleaning Plants

NFPA 3-2017 Standard for Commissioning of Fire Protection and Life Safety Systems

NFPA 321 Standard on Basic Classification of Flammable and Combustible Liquids

NFPA 325M Fire Hazard Properties of Flammable Liquids, Gases, and Volatile Solids

NFPA 326 Standard for the Safeguarding of Tanks and Containers for Entry, Cleaning, or Repair

NFPA 326 Standard for the Safeguards of Tanks and Containers for Entry, Cleaning or Repair 2005

NFPA 327 Standard Procedures for Cleaning or Safeguarding Small Tanks and Containers

NFPA 328 Recommended Practice for the Control of Flammable and Combustible Liquids and Gases in Manholes, Sewers, and Similar Underground Structures



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

NFPA 329 Recommended Practices for Handling Underground Releases of Flammable and Combustible Liquids

NFPA 33 Standard for Spray Application Using Flammable and Combustible Liquids

NFPA 34 Dipping and Coating Process Using Flammable or Combustible Liquids

NFPA 34 Standard for Dipping and Coating Processes Using Flammable or Combustible Liquids 2007

NFPA 35 Standard for the Manufacture of Organic Coatings

NFPA 350 Guide for Safe Confined Space Entry and Work - 2015

NFPA 350 Guide for Safe Confined Space Entry and Work

NFPA 36 Standard for Solvent Extraction Plants

NFPA 37 Standard for the Installation and Use of Stationary Combustion Engines and Gas Turbines

NFPA 385 Standard for Tank Vehicles for Flammable and Combustible Liquids

NFPA 386 Standard for Portable Shipping Tanks for Flammable and Combustible Liquids

NFPA 395 Standard for the Stoppage of Flammable and Combustible Liquids on Farms and Isolated Construction Projects

NFPA 4 Standard for Integrated Fire Protection and Life Safety System Testing – 2018

NFPA 4 Standard for the Storage and Handling of Cellulose Nitrate Film

NFPA 40 Standard for the Storage and Handling of Cellulose Nitrate Motion Picture Film

NFPA 400 Hazardous Material Code

NFPA 402M Manual for Aircraft Rescue and Fire Fighting Operational Procedures

NFPA 403 Standard for Aircraft Rescue and Fire Fighting Operational Procedures

NFPA 403 Standard for Aircraft Rescue and Firefighting Service at Airports and Heliports

NFPA 407 Standard for Aircraft Fuel Servicing



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

NFPA 408 Standard for Aircraft Hand Fire Extinguishers

NFPA 409 Standard on Aircraft Hangers

NFPA 40E Code for the Storage of Pyroxylin Plastic

NFPA 410 Standard on Aircraft Maintenance

NFPA 412 Standard for Aircraft Foam, Fire Fighting Vehicles, Test Procedures

NFPA 414 Standard for Aircraft Rescue, Fire Fighting Vehicles

NFPA 415 Standard on Aircraft Fueling Ramp Drainage

NFPA 416 Standard on Aircraft Terminal Buildings

NFPA 417 Standard on Aircraft Loading Walkways

NFPA 418 Standard for Heliports

NFPA 419 Guide for Master Planning Airport Water Supply Systems for Fire Protection

NFPA 422M Manual for Aircraft Fire and Explosion Investigators

NFPA 423 Standard for Construction and Protection of Aircraft Engine Test Facilities

NFPA 424M Manual for Airport/Community Emergency Planning

NFPA 430 Liquid and Solid Oxidizers

NFPA 432 Code for the Storage of Organic Peroxide Formulations

NFPA 434 Code for the Storage of Pesticides

NFPA 434 Code for the Storage of Pesticides 2002

NFPA 43A Code for the Storage of Liquid and Solid Oxidizing Materials

NFPA 43B Code for the Storage of Organic Peroxide Formulation

NFPA 43C Code for the Storage of Gaseous Oxidizing Materials

NFPA 43D Code for Storage of Pesticides in Portable Containers



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

NFPA 45 Standard on Fire Protection for Laboratories Using Chemicals

NFPA 450 Guide for Emergency Medical Services and Systems

NFPA 46 Recommended Safe Practice for Storage of Forest Products

NFPA 471 Recommended Practice for Responding to Hazardous Material Incidents

NFPA 472 Standard for Professional Competence of Responders to Hazardous Materials Incidents

NFPA 473 Standard for Competence for EMS Operations at Hazardous Materials Incidents

NFPA 480 Guide for the Storage, Handling and Processing of Magnesium

NFPA 481 Standard for the Production, Processing, Handling and Storage of Titanium

NFPA 482 Standard for the Production, Processing, Handling and Storage of Zirconium

NFPA 484 Standard for Combustible Metals

NFPA 485 Lithium Metal Storage, Handling, Fabrication, and Use of

NFPA 49 Hazardous Chemicals Data

NFPA 490 Code for the Storage of Ammonium Nitrate

NFPA 491M Manual of Hazardous Chemical Reactions

NFPA 495 Explosives Materials Code

NFPA 496 Standard for Purged and Pressurized Enclosures for Electrical Equipment in Hazardous Locations

NFPA 497A Recommended Practice for Classification of Class I Hazardous Locations for Electrical Installations in Chemical Process Areas

NFPA 497B Recommended Practice for Classification of Class II Hazardous Locations for Electrical Installations in Chemical Process Areas

NFPA 497M Manual for Classification of Gases, Vapors and Dusts for Electrical Equipment in Hazardous Locations



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

NFPA 498 Standard for Explosives Motor Vehicle Terminals

NFPA 499 Recommended Practice for the Classification of Combustible Dusts and of Hazardous (Classified) Locations for Electrical Installations in Chemical Process Areas

NFPA 50 Standard for Bulk Oxygen Systems at Consumer Sites

NFPA 5000 Building Construction and Safety Code

NFPA 501 Standard for Manufactured Housing

NFPA 501A Standard for Fire Safety Criteria for Manufactured Home Installations, Sites and Communities

NFPA 501C Standard on Recreational Vehicles

NFPA 501D Standard for Recreational Vehicle Parks and Campgrounds

NFPA 502 Recommended Practice for Fire Protection for Limited Access Highways, Tunnels, Bridges, Elevated Roadways and Air Right Structures

NFPA 505 Fire Safety Standard for Powered Industrial Trucks Including Type Designations, Areas of Use, Conversions, Maintenance, and Operation

NFPA 50A Standard for Gaseous Hydrogen Systems at Consumer Sites

NFPA 50B Standard for Liquefied Hydrogen Systems at Consumer Sites

NFPA 51 Standard for the Design and Installation of Oxygen-Fuel Gas Systems for Welding, Cutting, and Allied Processes (National Fire Code, Vol. 2)

NFPA 512 Standard for Truck Fire Protection

NFPA 513 Standard for Motor Freight Terminals

NFPA 51A Standard for Acetylene Cylinder Charging Plants

NFPA 51B Standard for Fire Prevention During Welding, Cutting, and Other Hot Work

NFPA 52 Standard for Compressed Natural Gas Vehicular Fuel Systems

NFPA 520 Standard on Subterranean Spaces 2005



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

NFPA 520 Subterranean Spaces

NFPA 53 Recommended practice on Materials, Equipment, and Systems Used in Oxygen Enriched Atmospheres

NFPA 53M Manual on Fire Hazards in Oxygen-Enriched Atmospheres

NFPA 54 ANSI Z223.1-2002 National Fuel Gas Code

NFPA 54 National Fuel Gas Code

NFPA 54H National Fuel Gas Code Handbook

NFPA 55 Compressed Gases and Cryogenic Fluids Code

NFPA 550 Guide to the Fire Safety Concepts Tree

NFPA 551 Guide for the Evaluation of Fire Risk Assessments

NFPA 555 Guide on Methods for Evaluating Potential for Room Flashover

NFPA 556 Guide on Methods for Evaluating Fire Hazard to Occupants of Passenger Road Vehicles

NFPA 557 Standard for Determination of Fire Loads for Use in Structural Fire Protection Design

NFPA 56 Fire and Explosion Prevention During Cleaning and Purging of Flammable Gas Piping Systems

NFPA 560 Standard for the Storage, Handling, and Use of Ethylene Oxide for Sterilization and Fumigation

NFPA 57 Liquefied Natural Gas (LNG) Vehicular Fuel Systems Code

NFPA 58 AMD 4 Liquefied Petroleum Gas Code

NFPA 58 Standard for Storage and Handling of Liquefied Petroleum Gases

NFPA 59 Standard for the Storage and Handling of Liquefied Petroleum Gases at Utility Gas Plants

NFPA 59A Standard for the Production, Storage, and Handling of Liquefied Natural Gas

NFPA 600 Standard on Industrial Fire Brigades



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

NFPA 601 Standard for Guard Services in Fire Loss Prevention

NFPA 61 Standard for the Prevention of Fires and Dust Explosions in Agricultural and Food Processing Facilities

NFPA 610 Guide for Emergency and Safety Operations at Motorsports Venues

NFPA 61A Standard for the Prevention of Fires and Dust Explosions in Facilities Manufacturing and Handling Starch

NFPA 61B Standard for the Prevention of Fires and Dust Explosions in Grain Elevators Facilities Handling Bulk Raw Agricultural Commodities

NFPA 61C Standard for the Prevention of Fires and Dust Explosions in Feed Mills

NFPA 65 Aluminum Processing and Finishing

NFPA 650 Standard for Pneumatic Conveying Systems for Handling Combustible Materials

NFPA 651 Standard for the Manufacture of Aluminum and Magnesium Powder

NFPA 652 Standard on the Fundamentals of Combustible Dust

NFPA 654 Standard for the Prevention of Fire and Dust Explosions in the Chemical, Dye, Pharmaceutical, and Plastic Industries

NFPA 655 Standard for Sulfur Fires and Explosions

NFPA 664 Standard for the Prevention of Fires and Explosions in Wood Processing and Woodworking

NFPA 67 Guide on Explosion Protection for Gaseous Mixtures in Pipe Systems

NFPA 68 Guide for the Venting of Deflagration

NFPA 69 Standard on Explosion Prevention

NFPA 70 National Electric Code (NEC)

NFPA 701 Standard Methods of Fire Tests for Flame Propagation of Textiles and Films

NFPA 702 Flame Field Test for Flame Resistant Textiles and Films (replaced by NFPA 705)



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

NFPA 70-2017 National Electric Code

NFPA 703 Standard for Fire Retardant Impregnated Wood and Fire-Retardant Coatings for Building Materials

NFPA 704 Standard System for the Identification of the Hazards of Materials for Emergency Response

NFPA 705 Field Flame Test for Textiles and Films

NFPA 70A Electrical Code for One- and Two-Family Dwellings

NFPA 70B Recommended Practice for Electrical Equipment Maintenance

NFPA 70E Standard for Electrical Safety in the Work Place

NFPA 70E Standard for Electrical Safety in the Workplace (2015 edition)

NFPA 70H National Electrical Code Handbook

NFPA 71 Standard for the Installation, Maintenance and Use of Central Station Service Signaling Systems

NFPA 72 National Fire Alarm and Signaling Code

NFPA 720 Standard for the Installation of Carbon Monoxide (CO) Warning Equipment in Dwelling Units

NFPA 720 Standard for the Installation of Carbon Monoxide (CO) Warning Equipment in Dwelling Units 2009

NFPA 72A Installation, Maintenance and Use of Local Protective Signaling Systems (incorporated into NFPA 72)

NFPA 72B Installation, Maintenance and Use of Auxiliary Protective Signaling Systems (incorporated into NFPA 72)

NFPA 72C Installation, Maintenance and Use of Remote Station Signaling Systems (incorporated into NFPA 72)

NFPA 72D Installation, Maintenance and Use of Proprietary Protective Signaling Systems (incorporated into NFPA 72)



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

NFPA 72E Standard on Automatic Fire Detectors

NFPA 72F Standard on Emergency Voice/Alarm Communication Systems

NFPA 72G Guide for the Installation, Maintenance, and Use of Notification Appliances for Protective Signaling Systems

NFPA 72H Guide for Testing Procedures for Local, Auxiliary, Remote Station and Proprietary Notification Appliance for Protective Signaling Systems

NFPA 73 Electrical Inspection Code for Existing Dwellings

NFPA 730 Guide for Premises Security

NFPA 731 Standard for the Installation of Electronic Premises Security Systems

NFPA 74 Standard for the Installation, Maintenance, and Use of Household Fire Warning Equipment

NFPA 75 Standard for the Protection of Information Technology Equipment

NFPA 750 Standard for Water Mist Fire Protection Systems

NFPA 76 Standard for the Fire Protection of Telecommunications Facilities

NFPA 76 Standard for the Fire Protection of Telecommunications Facilities 2009

NFPA 77 Recommended Practice on Static Electricity

NFPA 780 Lightning Protection Code

NFPA 79 Electrical Standard for Industrial Machinery

NFPA 790 Standard for Competency of Third-Party Field Evaluation Bodies

NFPA 791 Recommended Practice and Procedures for Unlabeled Electrical Equipment Evaluation

NFPA 79H Electrical Standard for Industrial Machinery Handbook

NFPA 80 Standard for Fire Doors and Other Opening Protectives

NFPA 801 Standard for Fire Protection for Facilities Handling Radioactive Materials



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

NFPA 802 Recommended Fire Protection Practice for Nuclear Research Reactors

NFPA 803 Standard for Fire Protection for Light Water Nuclear Power Plants

NFPA 804 Standard for Fire Protection for Advanced Light Water Reactor Electric Generating Plants 2006

NFPA 805 Performance3-Based Standard for Fire Protection for Light Water Reactor Electric Generating Plants 2006

NFPA 80A Recommended Practice for Protection of Buildings from Exterior Fire Exposures -

NFPA 80H Standard for Fire Doors and Other Opening Protectives Handbook -

NFPA 82 Standard on Incinerators, Water and Linen Handling Systems and Equipment

NFPA 820 Recommended Practice for Fire Protection in Wastewater Treatment Plants

NFPA 85 Boiler and Combustion Systems Hazards Code

NFPA 850 Fire Protection for Recommended Practice for Fire Protection for Electric Generating Plants

NFPA 8501 Standard for Single Boiler Burner Operation

NFPA 8502 Prevention of Furnace Explosions/Implosions in Multiple Burner Boilers

NFPA 8503 Standard for Pulverized Fuel Systems

NFPA 8504 Standard on Atmospheric Fluidized Bed Boiler Operation

NFPA 8505 Recommended Safe Practice for Stoker Operations

NFPA 8506 Standard on Heat Recovery Steam Generator Systems

NFPA 851 Recommended Practice for Fire Protection for Hydroelectric Generating Plants

NFPA 853 Standard for the Installation of Stationary Fuel Cell Power Systems

NFPA 853 Standard for the Installation of Stationary Fuel Cell Power Systems 2007

NFPA 85A Standard for Prevention of Furnace Explosions in Fuel Oil and Natural Gas Fired Single Burner Boiler Furnaces



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

NFPA 85B Standard for Prevention of Furnace Explosions in Natural Gas Fired Multiple Burner Boiler Furnaces

NFPA 85C Standard for the Prevention of Furnace Explosions in Fuel Oil Fired Multiple Burner Boiler Furnaces

NFPA 85E Standard for Prevention of Furnace Explosions in Pulverized Coal Fired Multiple Burner Boiler Furnaces

NFPA 85F Standard for the Installation and Operation of Pulverized Fuel Systems

NFPA 85G Standard for the Prevention of Furnace Implosions in Multiple Burner-Boiler Furnaces

NFPA 85H Standard for Prevention of Combustion Hazards in Atmospheric Fluidized Bed Combustion Systems

NFPA 86 Standard for Ovens and Furnaces

NFPA 86C Standard for Industrial Furnaces Using a Special Processing Atmosphere

NFPA 86D Standard for Industrial Furnaces Using Vacuum as an Atmosphere

NFPA 87 Recommended Practice for Fluid Heaters

NFPA 88A Standard for Parking Structures

NFPA 88B Standard for Repair Garages

NFPA 900 Building Energy Code

NFPA 901 Uniform Coding for Fire Protection

NFPA 902M Fire Reporting Field Incident Manual

NFPA 903 Fire Reporting Property Survey Guide

NFPA 904 Incident Follow-up Report Guide

NFPA 906M Guide for Fire Incident Field Notes

NFPA 907M Manual for the Determination of Electrical Fire Causes



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

NFPA 909 Code for the Protection of Cultural Resource Properties - Museums, Libraries and Places of Worship

NFPA 909 Code for the Protection of Cultural Resources Properties - Museums, Libraries, and Places of Worship 2005

NFPA 90A Standard for the Installation of Air-Conditioning and Ventilating Systems

NFPA 90B Standard for the Installation of Warm Air Heating and Air Conditioning Systems

NFPA 91 Standard for Exhaust Systems for Air Conveying of Materials

NFPA 910 Recommended Practice for the Protection of Libraries and Library Collections from Fire

NFPA 911 Recommended Practice for the Protection of Museums and Museum Collections from Fire

NFPA 912 Recommended Practice for Fire Protection in Places of Worship

NFPA 913 Recommended Practice for the Protection of Historic Structures and Sites

NFPA 914 Recommended Practice for Fire Protection in Rehabilitation and Adaptive Reuse of Historic Structures

NFPA 92 Standard for Smoke Control Systems

NFPA 921 Guide for Fire and Explosion Investigations

NFPA 92A Recommended Practice for Smoke Control Systems

NFPA 92B Guide for Smoke Management Systems in Malls, Atria and Large Areas

NFPA 96 Standard for the Installation of Equipment for the Removal of Smoke and Grease Laden Vapors from Commercial Cooking Equipment

NFPA 97 Standard Glossary of Terms Relating to Chimney, Vents, Heat Producing Appliances

NFPA 99 Standard for Health Care Facilities

NFPA 99B Standard for Hypobaric Facilities

NFPA Handbook of Fire Protection



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

NFPA Hazard Classification Systems (Inactive)

NFPA Hazardous Materials Response Handbook

NFPA Health Care Facilities Handbook

NFPA Liquefied Petroleum Gases Handbook

NFPA NEC Handbook

NFRC 100 Procedure for Determining Fenestration Product Thermal Properties

NFRC 200 Procedure for Determining Fenestration Product Solar Heat Gain Coefficients at Normal Incidence

NIJ 0101.06 Ballistic Resistance of Body Armor

NIJ 0601.02 Law Enforcement and Corrections Standards and Testing Program

NISO Z39.14 Writing Abstracts

NISO Z39.16 Preparation of Scientific Papers for Written or Oral Presentation

NISO Z39.18 Scientific and Technical Reports

NISO Z39.23 Standard Technical Report Number (STRN)—Format and Creation

NISO Z39.31 Format for Scientific and Technical Translations

NIST SP 800-34 National Institute of Standards and Technology-- Contingency Planning Guide for Information Technology Systems

NIST SP 800-53 Recommended Security Controls for Federal Information Systems and Organizations

NMFC-100 National Motor Carrier Freight Classifications

NRCA Construction Details

NRCA Handbook of Accepted Roofing Knowledge

NRCA Roofing and Waterproofing Manual



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

NRCA Steep Roofing Manual

NRMCA Certification of Ready-Mixed Concrete Production Facilities, Latest Revision

NSC Accident Prevention Manual for Industrial Operations

NSC Aviation Ground Operation Safety Handbook

NSC Fundamentals of Industrial Hygiene

NSC Management Safety Policies and Procedures

NSC Motor Fleet Safety Manual

NSC Supervisor's Safety Manual

NSF National Sanitation Foundation Standards

NUREG-0700 Human-System Interface Design Review Guidelines

NWMA IS 5 Industry Standard for Ponderosa Wood Doors

NWWA (now NGWA) Manual of Groundwater Sampling Procedures

NWWDA 101/IS 2 Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors

NWWDA 101/IS 3 Wood Sliding Patio Doors

NWWDA IS-1 Series for Wood Flush Doors

NWWDA IS-2 Industry Standard for Wood Window Units

NWWDA IS-3 Industry Standard for Wood Sliding Patio Doors

NWWDA IS-6 Industry Standard for Wood Style and Rail Doors

NWWDA IS-7 Industry Standard for Wood Skylight/Roof Window Units

NYBC Building Code of New York State

NYBC NYECCC Energy Conservation Construction Code of New York State



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

NYBC NYRC Residential Code of New York State

OHSAS 18001 Occupational Health and Safety Management Specifications

OSP 1-916-3:2009 Mechanical Vibration -- Evaluation of machine vibration by measurements on non-rotating parts -- Part 3: Industrial machines with nominal power above 15 KW

PCA Clear Coatings for Exposed Architectural Concrete

PCA Effect of Substances on Concrete and Guide to Protective Treatment

PCA Painting Concrete

PCA Surface Treatments for Concrete Floors

PCI MNL-116 Manual for Quality Control for Plants and Production of Precast and Prestressed Concrete Products

PCI MNL-120 Design Handbook

PCSA-2 Mobile Hydraulic Crane Standards

PCSA-4 Mobile Power Crane and Excavator Standards and Hydraulic Crane Standards.

PDCA Architectural Painting and Wall Covering Manual (Inactive)

PPA-AP-907-001 Procedure Process Description

PPA-AP-907-005 Procedure Writers' Manual

PPA-AP-907-005.001 Functional Requirements for Advanced and Adaptive Smart Documents

PTI Post-Tensioning Manual

QC-1 Office of Defense Programs Nuclear Weapons Production Standard

RAC-1 Room Air Conditioners

RCC-MR 2007 Design and construction rules for mechanical components of nuclear installations

RCSC Specification for Structural Joints Using ASTM A325 or A490 Bolts



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

RFCI Recommended Work Procedures for Resilient Floor Covering

RP-1 Calibration Intervals

RP-12 Measurement Uncertainty

RP-18 Measurement Decision Risk

RP-19 End-to-End Measurement Quality Assurance

RP-5 Instrument Specifications

SAE 690596 New PCSA Standard for Hydraulic Cranes – Its Purpose and Implications

SAE J166 Minimum Performance Criteria for Brake Systems for Off-Highway Trucks and Wagons

SAE J227a Electric Vehicle Test Procedure

SAE J236 Minimum Performance Criteria for Brake Systems for Rubber Tire Self-Propelled Graders

SAE J237 Minimum Performance Criteria for Brake Systems for Off-Highway Rubber-Tired Front End Loaders and Dozers

SAE J319 Minimum Performance Criteria for Brake Systems for Off-Highway Rubber-Tired Self-Propelled Scrapers

SAE J376-85 Load-Indicating Devices in Lifting Crane Service.

SAE J386 Operator Restraint Systems for Off-Road Work Machines

SAE J429k Mechanical and Material Requirements for Externally Threaded Fasteners

SAE J765 Crane Load Stability Test.

SAE J874 Center of Gravity Test Code.

SAE J987 Crane Structure, Method of Test.

SAE/EIA 649B Configuration Management Standard

Safety Library Publication No. 22 Institute for Manufacturers of Explosives Standard 22



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

SBCCI SBC Standard Building Code

SC&RA Specialized Carriers and Riggers Association Recommended Practices for Telescopic and Hydraulic Gantry Systems

SDI 100 Steel Doors and Frames

SDI 102 Recommended Installation Standard for Insulated Steel Door Systems

SDI 108 Recommended Selection and Usage Guide for Standard Steel Doors

SDI 25 Design Manual for Composite Decks, Form Decks and Roof Decks

SDI A250.8 Recommended Specifications for Standard Steel Doors and Frames (Steel Door Institute)

SDI DDM 01 Diaphragm Design Manual

SFPE Society of Fire Protection Engineers (SFPE) Handbook

SJI Standard Specifications Load Tables and Weight Tables for Steel Joists and Joist Girders

SMA 2005 (SMS 2006) Specifications for Aluminum Sliding Screen Doors

SMA 3001 Aluminum Swinging Screen Doors

SNT-TC-1A-1980

TIA/EIA 222-F Structural Standards for Steel Antenna Towers and Antenna Supporting Structures

TIA/EIA 569B Commercial Building Telecommunications Cabling Standard

TIA/EIA 598B Optical Fiber Cable Color Coding

TIA-222-G Structural Standard for Antenna Supporting Structures and Antennas

UL 1072 Medium Voltage Cables

UL 1076 Proprietary Burglar Alarm Units and Systems

UL 142 Standard for Safety Steel Aboveground Tanks for Flammable and Combustible Liquids

UL 1610 Standard for Central-Station Burglar-Alarm Units



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

UL 1650 Standard for Safety Portable Power Cable

UL 1685 Standard for Safety Vertical-Tray Fire Propagation and Smoke Release Test for Electrical and Optical-Fiber Cables

UL 2050 National Industrial Security Systems

UL 2231-1 Standard for Safety Personnel Protection Systems for Electric Vehicle (EV) Supply Circuits: General Requirements

UL 2556 Standard for Safety Wire and Cable Test Methods

UL 2594 Standard for Safety Electric Vehicle Supply Equipment - Second Edition

UL 2594 Standard for Safety Electric Vehicle Supply Equipment

UL 2900-2-3 Outline of Investigation for Software Cybersecurity for Network-Connectable Products, Part 2-3: Particular requirements for Security and Life Safety Signaling Systems

UL 44 Standard for Safety Thermoset-Insulated Wires and Cables

UL 4703 Standard for Safety Photovoltaic Wire

UL 471 Standard for Safety Commercial Refrigerators and Freezers

UL 486A-486B UL Standard for Safety Wire Connectors

UL 508A Safety Standard for Industrial Control Panels

UL 558 Internal-Combustion-Engine-Powered Industrial Trucks.

UL 583 Electric-Battery-Powered Industrial Trucks.

UL 60320-1 (ND) National Differences for UL 60320-1 Appliances Couplers for Household and Similar General Purposes - Part 1: General Requirements

UL 61010B-1 Standard for Safety for Electrical Measuring and Test Equipment

UL 634 Standard for Connectors and Switches for Use with Burglar-Alarm Systems

UL 681 Standard for Installation and Classification of Burglar and Holdup Alarm Systems



TSL-1 APPENDIX B:
Non-Government Standards (NGS) Adopted by DOE

UL 70 Standard for Safety Septic Tanks, Bituminous Coated Metal

UL 752 Standard for Bullet Resisting Equipment

UL 817 Standard for Safety Cord Sets and Power-Supply Cords

UL 827 Standard for Central Alarm Services

UL 854 Standard for Safety Service Entrance Cables

UL 891 Standard for Safety Switchboards

UL 98 Standard for Safety Enclosed and Dead-Front Switches

US_D_225KY5 French Order dated December 12, 2005 – Concerning Nuclear Pressure Equipment [ESPN]

US_D_227LZM Directive 97/23/EC of The European Parliament and of the Council Concerning Pressure Equipment (PED) dated May 29, 1997

US_D_22D38U Order of the 7th February 2012 [French Order concerning Basic Nuclear Installation design, construction and operation quality]

US_D_22DUL8 French Decree 99-1046 dated December 13, 1999 – Concerning Pressure Equipment [ESP]

US_D_22L8EK French Order dated December 21, 1999 – Concerning the Classification and Evaluation of Conformity of Pressure Equipment

Wire Rope Technical Board Wire Rope User's Manual

WSTDA-RS-1 Web Sling and Tie Down Association Recommended Standard Specification for Synthetic Polyester Round slings

WSTDA-UV-SLING Summary Report of the Ultra Violet (UV) Degradation Testing Program for Synthetic Web Slings