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E1253-21 Standard Guide for Reconstitution of Charpy-Sized Specimens

E1675-20 Standard Practice for Sampling Two-Phase Geothermal Fluid for Purposes of Chemical Analysis

E2059-20 Standard Practice for Application and Analysis of Nuclear Research Emulsions for Fast Neutron Dosimetry

E668-20 Standard Practice for Application of Thermoluminescence-Dosimetry (TLD) Systems for Determining Absorbed Dose in Radiation-Hardness Testing of Electronic Devices

E3137/E3137M-18 Standard Specification for Heat Meter Instrumentation

E704-19 Standard Test Method for Measuring Reaction Rates by Radioactivation of Uranium-238

E722-19 Standard Practice for Characterizing Neutron Fluence Spectra in Terms of an Equivalent Monoenergetic Neutron Fluence for Radiation-Hardness Testing of Electronics

E509/E509M-21 Standard Guide for In-Service Annealing of Light-Water Moderated Nuclear Reactor Vessels

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E3283-21 Standard Practice for Preparation of Loose Radiological/Surrogate Contamination on Nonporous Test Coupon Surfaces for Evaluation of Decontamination Techniques

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F1736-21 Standard Guide for Irradiation of Finfish and Aquatic Invertebrates Used as Food to Control Pathogens and Spoilage Microorganisms

E262-17 Standard Test Method for Determining Thermal Neutron Reaction Rates and Thermal Neutron Fluence Rates by Radioactivation Techniques

ISO/ASTM52116-13(2020) Standard Practice for Dosimetry for a Self-Contained Dry-Storage Gamma Irradiator

ISO/ASTM51261-13(2020) Standard Practice for Calibration of Routine Dosimetry Systems for Radiation Processing

ISO/ASTM51818-20 Standard Practice for Dosimetry in an Electron Beam Facility for Radiation Processing at Energies Between 80 and 300 keV

ISO/ASTM52628-20 Standard Practice for Dosimetry in Radiation Processing

E3063-17 Test Method for Antimony Content Using Neutron Activation Analysis (NAA)

E900-21 Standard Guide for Predicting Radiation-Induced Transition Temperature Shift in Reactor Vessel Materials

E185-21 Standard Practice for Design of Surveillance Programs for Light-Water Moderated Nuclear Power Reactor Vessels

E1462-12(2018) Standard Test Methods for Insulation Integrity and Ground Path Continuity of Photovoltaic Modules

E910-18 Standard Test Method for Application and Analysis of Helium Accumulation Fluence Monitors for Reactor Vessel Surveillance

F1892-12(2018) Standard Guide for Ionizing Radiation (Total Dose) Effects Testing of Semiconductor Devices

F1192-11(2018) Standard Guide for the Measurement of Single Event Phenomena (SEP) Induced by Heavy Ion Irradiation of Semiconductor Devices

F448-18 Standard Test Method for Measuring Steady-State Primary Photocurrent

F1467-18 Standard Guide for Use of an X-Ray Tester ( $\approx 10$  keV Photons) in Ionizing Radiation Effects Testing of Semiconductor Devices and Microcircuits

ISO/ASTM51649-15 Standard Practice for Dosimetry in an Electron Beam Facility for Radiation Processing at Energies Between 300 keV and 25 MeV

ISO/ASTM51707-15 Standard Guide for Estimation of Measurement Uncertainty in Dosimetry for Radiation Processing

F1190-18 Standard Guide for Neutron Irradiation of Unbiased Electronic Components

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E927-19 Standard Classification for Solar Simulators for Electrical Performance Testing of Photovoltaic Devices

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E1021-15(2019) Standard Test Method for Spectral Responsivity Measurements of Photovoltaic Devices

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Device Parameter with Respect To a Test Parameter

E957-03(2019) Standard Terminology Relating to Geothermal Energy

E1171-15(2019) Standard Test Methods for Photovoltaic Modules in Cyclic Temperature and Humidity Environments

E1362-15(2019) Standard Test Methods for Calibration of Non-Concentrator Photovoltaic Non-Primary Reference Cells

E1597-10(2019) Standard Test Method for Saltwater Pressure Immersion and Temperature Testing of Photovoltaic Modules for Marine Environments

E2527-15(2019) Standard Test Method for Electrical Performance of Concentrator Terrestrial Photovoltaic Modules and Systems Under Natural Sunlight

E2236-10(2019) Standard Test Methods for Measurement of Electrical Performance and Spectral Response of Nonconcentrator Multijunction Photovoltaic Cells and Modules

E2685-15(2019) Standard Specification for Steel Blades Used with the Photovoltaic Module Surface Cut Test

E2766-13(2019) Standard Practice for Installation of Roof Mounted Photovoltaic Arrays on Steep-Slope Roofs

E2047-10(2019) Standard Test Method for Wet Insulation Integrity Testing of Photovoltaic Arrays

E3083-17 Standard Terminology Relating to Radiation Processing: Dosimetry and Applications

E264-19 Standard Test Method for Measuring Fast-Neutron Reaction Rates by Radioactivation of Nickel

E3190-19 Standard Practice for Preparation of Fixed Radiological/Surrogate Contamination on Porous Test Coupon Surfaces for Evaluation of Decontamination Techniques

E1038-10(2019) Standard Test Method for Determining Resistance of Photovoltaic Modules to Hail by Impact with Propelled Ice Balls

E2215-19 Standard Practice for Evaluation of Surveillance Capsules from Light-Water Moderated Nuclear Power Reactor Vessels

ISO/ASTM51276-19 Standard Practice for Use of a Polymethylmethacrylate Dosimetry System

E971-11(2019) Standard Practice for Calculation of Photometric Transmittance and Reflectance of Materials to Solar Radiation

E1854-19 Standard Practice for Ensuring Test Consistency in Neutron-Induced Displacement Damage of Electronic Parts

E944-19 Standard Guide for Application of Neutron Spectrum Adjustment Methods in Reactor Surveillance

E854-19 Standard Test Method for Application and Analysis of Solid State Track Recorder (SSTR) Monitors for Reactor Surveillance

E393-19 Standard Test Method for Measuring Reaction Rates by Analysis of Barium-140 From Fission Dosimeters

F1263-11(2019) Standard Guide for Analysis of Overtest Data in Radiation Testing of Electronic Parts

F1355-19 Standard Guide for Irradiation of Fresh Agricultural Produce as a Phytosanitary Treatment

E636-20 Standard Guide for Conducting Supplemental Surveillance Tests for Nuclear Power Reactor Vessels

E3006-20 Standard Practice for Ultraviolet Conditioning of Photovoltaic Modules or Mini-Modules Using a Fluorescent Ultraviolet (UV) Lamp Apparatus

E1855-20 Standard Test Method for Use of 2N2222A Silicon Bipolar Transistors as Neutron Spectrum Sensors and Displacement Damage Monitors

ISO/ASTM51631-20 Standard Practice for Use of Calorimetric Dosimetry Systems for Dose Measurements and Routine Dosimetry System Calibration in Electron Beams

E261-16(2021) Standard Practice for Determining Neutron Fluence, Fluence Rate, and Spectra by Radioactivation Techniques

E1018-20e1 Standard Guide for Application of ASTM Evaluated Cross Section Data File

E948-16(2020) Standard Test Method for Electrical Performance of Photovoltaic Cells Using Reference Cells Under Simulated Sunlight

E1040-10(2020) Standard Specification for Physical Characteristics of Nonconcentrator Terrestrial Photovoltaic Reference Cells

E973-16(2020) Standard Test Method for Determination of the Spectral Mismatch Parameter Between a Photovoltaic Device and a Photovoltaic Reference Cell

E1125-16(2020) Standard Test Method for Calibration of Primary Non-Concentrator Terrestrial Photovoltaic Reference Cells Using a Tabular Spectrum

E1034-95(2020) Standard Specification for Nuclear Facility Transient Worker Records

E1250-15(2020) Standard Test Method for Application of Ionization Chambers to Assess the Low Energy Gamma Component of Cobalt-60 Irradiators Used in Radiation-Hardness Testing of Silicon Electronic Devices

E1168-95(2020) Standard Guide for Radiological Protection Training for Nuclear Facility Workers

E265-15(2020) Standard Test Method for Measuring Reaction Rates and Fast-Neutron Fluences by Radioactivation of Sulfur-32

E2216-02(2020) Standard Guide for Evaluating Disposal Options for Concrete from Nuclear Facility Decommissioning

ISO/ASTM51401-13 Standard Practice for Use of a Dichromate Dosimetry System

ISO/ASTM51275-13 Standard Practice for Use of a Radiochromic Film Dosimetry System

ISO/ASTM51956-13 Standard Practice for Use of Thermoluminescence-Dosimetry (TLD) Systems for Radiation Processing

ISO/ASTM51650-13 Standard Practice for Use of a Cellulose Triacetate Dosimetry System

ISO/ASTM51607-13 Standard Practice for Use of the Alanine-EPR Dosimetry System

E1830-15(2019) Standard Test Methods for Determining Mechanical Integrity of Photovoltaic Modules

ISO/ASTM52701-13(2020) Standard Guide for Performance Characterization of Dosimeters and Dosimetry Systems for Use in Radiation Processing

E903-20 Standard Test Method for Solar Absorptance, Reflectance, and Transmittance of Materials Using Integrating Spheres

E1160-13(2021) Standard Guide for On-Site Inspection and Verification of Operation of Solar Domestic Hot Water Systems

E972-96(2021) Standard Test Method for Solar Photometric Transmittance of Sheet Materials Using Sunlight

E861-13(2021) Standard Practice for Evaluating Thermal Insulation Materials for Use in Solar Collectors

E683-91(2021) Standard Practice for Installation and Service of Solar Space Heating Systems for One- and Two-Family Dwellings

E905-87(2021) Standard Test Method for Determining Thermal Performance of Tracking

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E1056-13(2021) Standard Practice for Installation and Service of Solar Domestic Water Heating Systems for One- and Two-Family Dwellings

E3205-20 Standard Test Method for Small Punch Testing of Metallic Materials

E1167-15(2021) Standard Guide for Radiation Protection Program for Decommissioning Operations

E1892-15(2021) Standard Guide for Preparing Characterization Plans for Decommissioning Nuclear Facilities

E1249-15(2021) Standard Practice for Minimizing Dosimetry Errors in Radiation Hardness Testing of Silicon Electronic Devices Using Co-60 Sources

E1819-15(2021) Standard Guide for Environmental Monitoring Plans for Decommissioning of Nuclear Facilities

E1893-15(2021) Standard Guide for Selection and Use of Portable Radiological Survey Instruments for Performing In Situ Radiological Assessments to Support Unrestricted Release from Further Regulatory Controls

E1281-15(2021) Standard Guide for Nuclear Facility Decommissioning Plans

E2420-15(2021) Standard Guide for Post-Deactivation Surveillance and Maintenance of Radiologically Contaminated Facilities

E2421-15(2021) Standard Guide for Preparing Waste Management Plans for Decommissioning Nuclear Facilities

E974-21 Standard Guide for Specifying Thermal Performance of Geothermal Power Systems

E523-21e1 Standard Test Method for Measuring Fast-Neutron Reaction Rates by Radioactivation of Copper

E1005-21 Standard Test Method for Application and Analysis of Radiometric Monitors for Reactor Vessel Surveillance

E772-15(2021) Standard Terminology of Solar Energy Conversion

E3325-21 Standard Practice for Sampling of Solar Photovoltaic Modules for Toxicity Testing

F1356-22 Standard Guide for Irradiation of Fresh, Frozen or Processed Meat and Poultry to Control Pathogens and Other Microorganisms

E947-22 Standard Specification for Sampling Single-Phase Geothermal Liquid or Steam for Purposes of Chemical Analysis

E2006-22 Standard Guide for Benchmark Testing of Light Water Reactor Calculations

E385-22 Standard Test Method for Oxygen Content Using a 14-MeV Neutron Activation and Direct-Counting Technique

ISO/ASTM51310-22 Standard Practice for Use of a Radiochromic Optical Waveguide Dosimetry System

ISO/ASTM51702-13(2021) Standard Practice for Dosimetry in a Gamma Facility for Radiation Processing

E3084-17(2022)e1 Standard Practice for Characterizing Particle Irradiations of Materials in Terms of Non-Ionizing Energy Loss (NIEL)

E496-14(2022) Standard Test Method for Measuring Neutron Fluence and Average Energy from  ${}^3\text{H}(d,n){}^4\text{He}$  Neutron Generators by Radioactivation Techniques

E482-22 Standard Guide for Application of Neutron Transport Methods for Reactor Vessel Surveillance

E721-22 Standard Guide for Determining Neutron Energy Spectra from Neutron Sensors for Radiation-Hardness Testing of Electronics

E526-22 Standard Test Method for Measuring Fast-Neutron Reaction Rates By Radioactivation of Titanium

ISO/ASTM51940-22 Standard Guidance for Dosimetry for Sterile Insect Release Programs

ISO/ASTM51939-17(2022) Standard Practice for Blood Irradiation Dosimetry

E744-07(2022) Standard Practice for Evaluating Solar Absorptive Materials for Thermal Applications

E782-95(2022) Standard Practice for Exposure of Cover Materials for Solar Collectors to Natural Weathering Under Conditions Simulating Operational Mode

E881-92(2022) Standard Practice for Exposure of Solar Collector Cover Materials to Natural Weathering Under Conditions Simulating Stagnation Mode

E1175-87(2022) Standard Test Method for Determining Solar or Photopic Reflectance, Transmittance, and Absorptance of Materials Using a Large Diameter Integrating Sphere

ISO/ASTM51608-15(2022) Standard Practice for Dosimetry in an X-Ray (Bremsstrahlung) Facility for Radiation Processing at Energies between 50 keV and 7.5 MeV

E2450-23 Standard Practice for Application of CaF<sub>2</sub>(Mn) Thermoluminescence Dosimeters in Mixed Neutron-Photon Environments

E821-16(2023) Standard Practice for Measurement of Mechanical Properties During Charged-Particle Irradiation

E1214-11(2023) Standard Guide for Use of Melt Wire Temperature Monitors for Reactor Vessel Surveillance

E693-23 Standard Practice for Characterizing Neutron Exposures in Iron and Low Alloy Steels in Terms of Displacements Per Atom (DPA)

E720-23 Standard Guide for Selection and Use of Neutron Sensors for Determining Neutron Spectra Employed in Radiation-Hardness Testing of Electronics

E170-23 Standard Terminology Relating to Radiation Measurements and Dosimetry

E706-23 Standard Master Matrix for Light-Water Reactor Pressure Vessel Surveillance Standards

E181-23 Standard Guide for Detector Calibration and Analysis of Radionuclides in Radiation Metrology for Reactor Dosimetry

ISO/ASTM51900-23 Standard Guidance for Dosimetry for Radiation Research

E3376-23 Standard Practice for Calibration and Usage of Germanium Detectors in Radiation Metrology for Reactor Dosimetry

E424-71(2023) Standard Test Methods for Solar Energy Transmittance and Reflectance (Terrestrial) of Sheet Materials

E781-86(2023) Standard Practice for Evaluating Absorptive Solar Receiver Materials When Exposed to Conditions Simulating Stagnation in Solar Collectors with Cover Plates

E822-92(2023) Standard Practice for Determining Resistance of Solar Collector Covers to Hail by Impact with Propelled Ice Balls

E1084-86(2023) Standard Test Method for Solar Transmittance (Terrestrial) of Sheet Materials Using Sunlight

ISO/ASTM51539-23 Standard Guidance for Use of Radiation-Sensitive Indicators

E1035-18(2023) Standard Practice for Determining Neutron Exposures for Nuclear Reactor Vessel Support Structures

E3105-17(2023) Standard Specification for Permanent Coatings Used to Mitigate Spread of Radioactive Contamination

E3104-17(2023) Standard Specification for Strippable and Removable Coatings to Mitigate Spread of Radioactive Contamination

E266-23 Standard Test Method for Measuring Fast-Neutron Reaction Rates by Radioactivation of Aluminum

E521-23 Standard Practice for Investigating the Effects of Neutron Radiation Damage Using Charged-Particle Irradiation

E942-23 Standard Guide for Investigating the Effects of Helium in Irradiated Metals

E481-23 Standard Practice for Measuring Neutron Fluence Rates by Radioactivation of Cobalt and Silver

E1799-12(2023) Standard Practice for Visual Inspections of Photovoltaic Modules

E1802-12(2023) Standard Test Methods for Wet Insulation Integrity Testing of Photovoltaic Modules

E2939-13(2023) Standard Practice for Determining Reporting Conditions and Expected Capacity for Photovoltaic Non-Concentrator Systems

E2481-12(2023) Standard Test Method for Hot Spot Protection Testing of Photovoltaic Modules

E2908-12(2023) Standard Guide for Fire Prevention for Photovoltaic Panels, Modules, and Systems

E2848-13(2023) Standard Test Method for Reporting Photovoltaic Non-Concentrator System Performance

E853-23 Standard Practice for Analysis and Interpretation of Light-Water Reactor Surveillance Neutron Exposure Results

E2956-23 Standard Guide for Monitoring the Neutron Exposure of LWR Reactor Pressure Vessels

E531-23 Standard Practice for Surveillance Testing of High-Temperature Nuclear

## Component Materials

F980-16(2024) Standard Guide for Measurement of Rapid Annealing of Neutron-Induced Displacement Damage in Silicon Semiconductor Devices

52303-24 Standard Guide for Absorbed-Dose Mapping in Radiation Processing Facilities

51026-23 Standard Practice for Using the Fricke Dosimetry System