

Other ASTM Technical Committees with Standards Referenced by the U.S. Nuclear Regulatory Commission (NRC) and Industry:

ASTM Committee A01 on Steel, Stainless Steel and Related Alloys

37 ASTM standards referenced, including:

- A36/A36M Standard Specification for Carbon Structural Steel
A182/A182M Standard Specification for Forged or Rolled Alloy and Stainless Steel Pipe Flanges, Forged Fittings, and Valves and Parts for High-Temperature Service
- A240/A240M Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications
- A370 Standard Test Methods and Definitions for Mechanical Testing of Steel Products

ASTM Committee C01 on Cement

9 standards referenced, including:

- C109/C109M Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or [50-mm] Cube Specimens)
- C114 Standard Test Methods for Chemical Analysis of Hydraulic Cement
- C150/C150M Standard Specification for Portland Cement
- C191 Standard Test Methods for Time of Setting of Hydraulic Cement by Vicat Needle

ASTM Committee C09 on Concrete

37 standards referenced, including:

- C31/C31M Standard Practice for Making and Curing Concrete Test Specimens in the Field
- C33/C33M Standard Specification for Concrete Aggregates
- C39/C39M Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens
- C231 Standard Test Method for Air Content of Freshly Mixed Concrete by the Pressure Method

ASTM Committee D18 on Soil and Rock

44 standards referenced, including:

- D422 Standard Test Method for Particle-Size Analysis of Soils
- D698 Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft³ (600 kN-m/m³))
- D2487 Standard Practice for Classification of Soils for Engineering Purposes (Unified Soil Classification System)
- D4318 Standard Test Methods for Liquid Limit, Plastic Limit, and Plasticity Index of Soils

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For developing nations that have a Memorandum of Understanding with ASTM International (www.astm.org/GLOBAL), membership is available at no cost through the national standards body. Please contact Teresa Cendrowska (tcendrow@astm.org).

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ASTM International

Standards for Civil Nuclear Power

Nuclear energy provides one option as a source of clean, renewable energy

Technical standards from ASTM International guide the design, construction, maintenance and delivery of nuclear power facilities around the world.

ASTM specifications and test methods enhance public and worker safety; facilitate commerce; help to protect the environment; enable technology transfer and provide regulatory compliance. These well-respected standards cover a wide range of applications within the civil nuclear power field.



ASTM Committee C26 on Nuclear Fuel Cycle

Established: 1969

Number of Members: 174

Number of Standards: 175

Global Participation: 14 countries represented

Scope: All aspects of the nuclear fuel cycle are included, with emphasis on nuclear fuel and reactor materials processing, analysis and disposal/disposition technologies and applications. The commercial nuclear industry as well as the defense community fall within the scope of Committee C26.

Technical Subcommittees:

- C26.01 Editorial and Terminology
- C26.02 Fuel and Fertile Material Specifications
- C26.03 Neutron Absorber Materials Specifications
- C26.05 Methods of Test
- C26.07 Waste Materials
- C26.08 Quality Assurance, Statistical Applications, and Reference Materials
- C26.09 Nuclear Processing
- C26.10 Nondestructive Assay
- C26.12 Safeguard Applications
- C26.13 Spent Fuel and High Level Waste
- C26.14 Remote Systems

Key Standards:

- C753 Standard Specification for Nuclear-Grade, Sinterable Uranium Dioxide Powder
- C967 Standard Specification for Uranium Ore Concentrate
- C1233 Standard Practice for Determining Equivalent Boron Contents of Nuclear Materials
- C1682 Standard Guide for Characterization of Spent Nuclear Fuel in Support of Geologic Repository Disposal

Proposed Standards Under Development:

- WK22912 Practice for Laboratory Testing to Support Predictions of the Long-Term Behavior of Waste Forms Used for Geological Disposal of High-Level Radioactive Waste
- WK24598 Test Method for Hybrid K-edge Densitometry for Uranium and Plutonium in Solutions
- WK29794 Test Method for Analysis of Spent Nuclear Fuel to Determine Selected Isotopes and Estimate Fuel Burnup



ASTM Committee D33 on Protective Coating and Lining Work for Power Generation Facilities

Established: 1979

Number of Members: 105

Number of Standards: 31

Global Participation: 11 countries represented

Scope: The development of standard specifications, test methods, practices, definitions, and classifications for organic and inorganic protective coating and lining work for power generation facilities.

Technical Subcommittees:

- D33.02 Service and Material Parameters
- D33.04 Quality Systems and Inspection
- D33.05 Application and Surface Preparation
- D33.09 Protective Lining for FGD Systems
- D33.10 Protective Coatings Maintenance Work for Power Generation Facilities
- D33.12 Tank Coatings and Linings

Key Standards:

- D3911 Standard Test Method for Evaluating Coatings Used in Light-Water Nuclear Power Plants at Simulated Design Basis Accident (DBA) Conditions
- D4082 Standard Test Method for Effects of Gamma Radiation on Coatings for Use in Nuclear Power Plants
- D5144 Standard Guide for Use of Protective Coating Standards in Nuclear Power Plants

ASTM Committee E10 on Nuclear Technology and Applications

Established: 1951

Number of Members: 135

Number of Standards: 66

Global Participation: 19 countries represented

Scope: To promote the advancement of nuclear science and technology and the safe application of energy by:

- Standardizing measurement techniques and specifications for radiation effects and dosimetry;
- Standardizing the nomenclature and definitions;
- Maintaining a broad expertise in application of nuclear technology, science and especially the measurement of radiation effects from environments of nuclear reactor, particle accelerators, indigenous space, spacecraft, and radionuclides; and
- Sponsoring symposia and publications.

Technical Subcommittees:

- E10.02 Behavior and Use of Nuclear Structural Materials
- E10.03 Radiological Protection for Decontamination and Decommissioning of Nuclear Facilities and Components
- E10.05 Nuclear Radiation Metrology
- E10.07 Radiation Dosimetry for Radiation Effects on Materials and Devices
- E10.08 Procedures for Neutron Radiation Damage Simulation

Recent E10 Publications:

- STP 1490 Reactor Dosimetry: 12th International Symposium
- STP 1492 Effects of Radiation on Materials: 23rd International Symposium
- STP 1505 Zirconium in Nuclear Industry: 15th International Symposium

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