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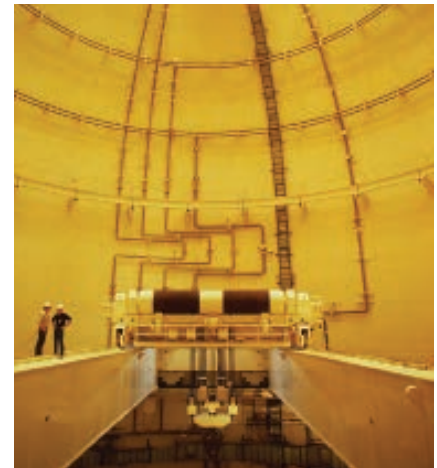
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ASTM International Technical Committee Committee E10 on Nuclear Technology and Applications

Scope

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

- 1) Standardizing measurement techniques and specifications for radiation effects and dosimetry including materials response, instrument response, and fuel burnup.
 - 2) Standardizing the nomenclature and definitions used in or relating to testing methods or instruments in support of nuclear industry.
 - 3) Maintaining a broad expertise in application of nuclear science and technology especially the measurement of radiation effects from environments of nuclear reactor, particle accelerators, indigenous space, spacecraft, and radionuclides.
 - 4) Maintaining a broad expertise in the applications of radionuclides.
 - 5) Sponsoring scientific and technical symposia and publications in the Committee's fields of specialization.
 - 6) Performing liaison with related ASTM committees and other technical societies and organizations, both national and international.
- Advising other technical committees of the Society in our field of expertise.



Quick Facts

Established 1951
Number of Members 150+
Number of Standards 67
Global Participation
21 Countries represented
The standards are available in
Volume 12.02 in the *Annual Book of ASTM Standards*
Meetings E10 meets twice each year, in January and June

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Learn more about Committee E10
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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
- E10.93 Editorial

Key Documents

- E181 Standard Test Methods for Detector Calibration and Analysis of Radionuclides
- E185 Standard Practice for Design of Surveillance Programs for Light-Water Moderated Nuclear Power Reactor Vessels
- E261 Standard Practice for Determining Neutron Fluence, Fluence Rate, and Spectra by Radioactivation Techniques
- E636 Standard Guide for Conducting Supplemental Surveillance Tests for Nuclear Power Reactor Vessels, E706 (IH)
- E666 Standard Practice for Calculating Absorbed Dose From Gamma or X Radiation
- E900 Standard Guide for Predicting Radiation-Induced Transition Temperature Shift in Reactor Vessel Materials
- E2215 Standard Practice for Evaluation of Surveillance Capsules from Light-Water Moderated Nuclear Power Reactor Vessels