



# Standards *Actions*

## DOE Projects Canceled

The following DOE technical standard project was recently canceled. If you have any questions about this action, please contact the person listed below.

- *Seismic Design and Evaluation Guidelines for High-Level Waste Storage Tanks*, 6910-0035; Owen Thompson, EM-38, 301-903-1926, FAX 301-903-7604, [Owen.Thompson@em.doe.gov](mailto:Owen.Thompson@em.doe.gov).

## DOE Technical Standards Recently Sent for Coordination

The appropriate Technical Standards Managers (TSMs) will provide selected reviewers with copies for comment. The full text of this document is available on the Technical Standards Program (TSP) Internet Site at the URL shown at the bottom of this page. If you wish to comment on this document, please notify your TSM.

- *Stabilization, Packaging, and Storage of Plutonium-Bearing Materials*, PACK-0011, will supersede DOE-STD-3013-96 (Gary Roberson, AL, 505-845-5805, [GRoberson@doeal.gov](mailto:GRoberson@doeal.gov)).

## DOE Documents Recently Published

The following DOE documents have recently been published:

- DOE-DP-STD-3016-99, *Hazard Analysis Reports for Nuclear Explosive Operations*, February 1999.
- DOE-STD-3025-99, *Quality Assurance Inspection and Testing of HEPA Filters*, Superseding DOE NE F 3-43, February 1990.
- DOE-STD-3026-99, *Filter Test Facility Quality Program Plan*, Superseding DOE NE F 3-44, July 1986.
- DOE-HDBK-6004-99, *Supplementary Guidance and Design Experience for the Fusion Safety Standards DOE-STD-6002-96 and DOE-STD-6003-96*, January 1999.

DOE employees and DOE contractors may obtain copies from the ES&H Technical Information Services; telephone 1-800-473-4375 or FAX 301-903-9823.

Subcontractors and the general public may obtain copies from the U.S. Department of Commerce, Technology Administration, National Technical Information Service, Springfield, Virginia 22161; telephone 703-605-6000 or FAX 703-321-8547.

Copies of DOE technical standards (i.e., DOE Standards, Specifications, Handbooks, and Technical Standards Lists) are also available on the Internet at the address shown at the bottom of this page. The "recently published" documents listed above were recently added to the TSP Internet Site.

## Technical Standards Program Document Status as of 3/31/99

In Conversion	In Preparation	Out for Comment	Published in Past 30 Days
4	48	17	4

**Total in process = 65**

## Non-Government Standards

### American National Standards Institute

The American National Standards Institute (ANSI) publishes coordination activities of non-Government standards (NGS) biweekly in *ANSI Standards Action*. Please note that distribution of *ANSI Standards Action* is normally made only to individual members of ANSI or in group mailings to site members of ANSI. For information on site membership, ask your local

ANSI contact. For information on individual or group ANSI membership, call Susan Bose at 212-642-4948, Email [sbose@ansi.org](mailto:sbose@ansi.org). For further information on distribution policies of ANSI publications, call the ANSI distribution manager at 212-642-4952.

Copies of *ANSI Standards Action* and ANSI-published documents may be obtained from ANSI, 11 West 42nd Street, New York, NY 10036 (212-642-4900, FAX 212-302-1286). Comments on listed draft standards may be submitted by contacting the standards developing organization for information.

The following listings are extracted from *ANSI Standards Action* and are representative of NGS development activities that may be relevant to DOE operations. Refer to *ANSI Standards Action* for a complete listing of changes and new publications, standards developing organizations, and additional information about submitting comments. Additional information on ANSI activities and available non-Government standards can be found on the ANSI Internet site (<http://www.ansi.org>) or through the National Standards System Network (<http://www.nssn.org>).

The following American National Standards are currently in coordination:

- ANS C50.41, *Polyphase Induction Motors for Power Generating Stations* (new standard); comments due May 11, 1999.
- ASME OMB-S/G, *Standards and Guides for Operation and Maintenance of Nuclear Power Plants* (supplement to ANSI/ASME OMB-S/G-1997); comments due May 11, 1999.



Visit the Technical Standards Program Internet Site: <http://apollo.osti.gov/html/techstds/techstds.html>

- ASTM A20/A20M, *Specification for General Requirements for Steel Plates for Pressure Vessels* (revision of ANSI/ASTM A20); comments due April 27, 1999.
  - ASTM A213/213M, *Specification for Seamless Ferritic and Austenitic Alloy-Steel Boiler, Superheater, and Heat-Exchanger Tubes* (revision of ANSI/ASTM A213/A213M); comments due April 27, 1999.
  - ASTM A832/A832M, *Specification for Pressure Vessel Plates, Alloy Steel, Chromium-Molybdenum-Vanadium* (revision of ANSI/ASTM A832/A832M); comments due April 27, 1999.
  - ASTM A906/A906M, *Specification for Alloy Steel Chain Slings for Overhead Lifting* (revision of ANSI/ASTM A906/A906M); comments due April 27, 1999.
  - ASTM C634, *Terminology Relating to Environmental Acoustics* (revision of ANSI/ASTM C634-98); comments due April 27, 1999.
  - ASTM D495, *Test Method for High-Voltage, Low-Current, Dry Arc Resistance of Solid Electrical Insulation* (new standard); comments due April 27, 1999.
  - ASTM D1000, *Test Methods for Pressure-Sensitive Adhesive-Coated Tapes Used for Electrical and Electronic Applications* (new standard); comments due April 27, 1999.
  - ASTM D1356, *Terminology Relating to Sampling and Analysis of Atmospheres* (revision of ANSI/ASTM D1356-98A); comments due April 27, 1999.
  - ASTM D6095, *Test Method for Volume Resistivity for Extruded Crosslinked and Thermoplastic Semi-Conducting, Conductor and Insulation Shielding Materials* (new standard); comments due April 27, 1999.
  - ASTM D6332, *Guide for Testing Systems for Measuring Dynamic Responses of Carbon Monoxide Detectors to Gases and Vapors* (new standard); comments due April 27, 1999.
  - AWS C7.3, *Specification for Electron Beam Welding* (new standard); comments due April 27, 1999.
  - EIA SP-4415 (if approved, to be published as ANSI/EIA 364-22B), *Life Test Procedure for Electrical Connectors and Sockets* (new standard); comments due May 11, 1999.
  - IEEE 603, *Standard Criteria for Safety Systems for Nuclear Power Generating Stations* (revision of ANSI/IEEE 603-1991); comments due May 11, 1999.
  - IEEE 605-1987, *Guide for the Design of Substation Rigid-Bus Structures* (new standard); comments due May 11, 1999.
  - IEEE 902-1998, *Guide for Maintenance, Operation and Safety of Industrial and Commercial Power Systems* (Yellow Book) (new standard); comments due April 27, 1999.
  - IEEE 1247, *Interrupter Switches for Alternating Current, Rated Above 1,000 Volts* (new standard); comments due May 11, 1999.
  - IEEE 1248, *Guide for the Commissioning of Electrical Systems in Hydroelectric Power Plants* (new standard); comments due May 11, 1999.
  - IEEE 1416, *Recommended Practice for the Interface of New Gas Insulated Equipment in Existing Gas Insulated Substations* (new standard); comments due April 27, 1999.
  - IEEE C57.12.01-1998, *General Requirements for Dry-Type Distribution and Power Transformers Including Those with Solid Cast and/or Resin Encapsulated Windings* (new standard); comments due April 27, 1999.
  - IEEE C57.121, *Guide for Acceptance and Maintenance of Less-Flammable Hydrocarbon Fluid in Transformers* (revision of ANSI/IEEE C57.121-1991 (R1995)); comments due April 27, 1999.
  - NFPA 13, *Standard for the Installation of Sprinkler Systems* (revision of ANSI/NFPA 13-1996); comments due June 10, 1999.
  - NFPA 72, *National Fire Alarm Code* (revision of ANSI/NFPA 72-1996); comments due June 10, 1999.
  - NFPA 180, *Respiratory Protective Escape Device* (new standard); comments due June 10, 1999.
  - NFPA 252, *Fire Tests of Door Assemblies* (revision of ANSI/NFPA 252-1995); comments due June 10, 1999.
  - NFPA 1221, *Public Fire Service Communications* (revision of ANSI/NFPA 1221-1994); comments due June 10, 1999.
  - NFPA 1936, *Hydraulic Powered Rescue Tools* (new standard); comments due June 10, 1999.
  - UL 30, *Standard for Safety for Metal Safety Cans* (revision of ANSI/UL 30-1990); comments due May 11, 1999.
  - UL 218, *Standard for Safety for Fire Pump Controllers* (new standard); comments due May 11, 1999.
  - UL 842, *Standard for Safety for Valves for Flammable Fluids* (revision of ANSI/UL 842-1992); comments due June 10, 1999.
  - UL 1040, *Standard for Safety for Fire Test for Insulated Wall Construction* (new standard); comments due May 11, 1999.
- The following international standards are currently in coordination** (comment due dates follow each entry):
- ISO/DIS 3864-1, *Safety colours and safety signs - Part 1: Safety signs in workplaces and public areas - Design principles* - May 12, 1999.
  - ISO/DIS 10414-1, *Petroleum and natural gas industries - Field testing of drilling and completion fluids and well cement - Part 1: Water-based fluids* - May 26, 1999.
  - ISO/DIS 13769, *Gas cylinders - Stamp marking* - April 29, 1999.
  - ISO/DIS 15663-1, *Petroleum and natural gas industries - Life cycle costing - Part 1: Methodology* - May 26, 1999.
  - ISO/DIS 16200-2, *Workplace air quality - Sampling and analysis of volatile organic compounds by solvent desorption/gas chromatography - Part 2: Diffusive sampling method* - May 12, 1999.
  - prEN 81-6, *Safety rules for the construction and installation of lifts and service lifts - Part 6: Guided chain lifts* - May 16, 1999.
  - prEN 473 REVIEW, *Non destructive testing - Qualification and certification of NDT personnel - General principles* - May 16, 1999.
  - prEN 934-4, *Admixtures for concrete, mortar and grout - Part 4: Admixtures for grout for prestressing tendons - Definitions, specifications and conformity* (for information).
  - prEN 1005-1, *Safety of machinery-Human physical performance - Part 1: Terms and definitions* - May 10, 1999.
  - prEN 1767, *Products and systems for the protection and repair of concrete structures - Test methods - Infrared analysis* (for information).
  - prEN 12007-1, *Gas supply systems - Pipelines for maximum operating pressure up to and including 16 bar - Part 1: General functional recommendations* (for information).

- prEN 12098-2, *Controls for heating systems - Part 2: Optimum start-stop control equipment for hot water heating systems* - May 3, 1999.
- prEN 50131-7, *Alarm systems - Intrusion systems - Part 7: Application guidelines* - May 12, 1999.

### American Society for Testing and Materials

Standards activities of the American Society for Testing and Materials (ASTM) are published monthly in *ASTM Standardization News*. Orders for subscriptions or single copies of *ASTM Standardization News* may be submitted to ASTM, Subscription Dept.-SN, 100 Barr Harbor Drive, West Conshohocken, Pennsylvania 19428-2959. For information regarding ASTM membership, contact the Membership Services Department at 610-832-9691 (FAX 610-832-9667). ASTM publications may be ordered from the ASTM Customer Services Department at 610-832-9585 (FAX 610-832-9555). Comments on listed draft standards may be submitted by contacting the ASTM Standards Coordination Department at the above address. Questions may be addressed to the Technical Committee Operations Division at 610-832-9672 (FAX 610-832-9666). Additional information on ASTM activities is available on the ASTM Internet site (<http://www.astm.org>). The following listings are extracted from *ASTM Standardization News* and are representative of NGS development activities that may be relevant to DOE operations.

#### The following ASTM standards are currently in coordination: (the due date for all items is April 10, 1999).

- New Standard, *Guide for Data and Information Needs for Conducting an Ecological Risk Assessment at Contaminated Sites* (Ref. Z6300Z).
- New Standard, *Specification for Chemically-Strengthened Flat Glass* (Ref. Z6705Z).
- New Standard, *Test Method for Minimum Ignition Energy of a Dust Cloud in Air* (Ref. Z6767Z).
- New Standard, *Guide for Digital Data Acquisition in Wear and Friction Measurements* (Ref. Z7040Z).
- New Standard, *Practice for Calculating the Superimposed Load on Wood-Frame Walls for Standard Fire Endurance Tests* (Ref. Z7471Z).
- New Standard, *Guide to Evaluation of Measurements Made by On-Line Coal Analyzers* (Ref. Z7477Z).
- New Standard, *Guide for Cleaning, Flushing and Purification of Steam, Gas and Hydroelectric Turbine Lubrication Systems* (Ref. Z7745Z).
- New Standard, *Test Methods for Total Mercury in Coal and Coal Combustion Residues by Acid Extraction or Wet Oxidation/Cold Vapor Atomic Absorption* (Ref. Z7755Z).
- Provisional, *Test Methods for Determination of Trace Elements in Coal, Coke, and Combustion Residues From Coal Utilization Processes by Inductively Coupled Plasma Atomic Emission Spectrometry, Inductively Coupled Plasma Mass Spect* (Formerly PS 52-96).
- Provisional, *Test Method for Determining the Ignitability of Clothing by the Electric Arc Exposure Method* (Formerly PS 57-97).
- Provisional, *Test Method for Determining the Arc Thermal Performance (Value) of Textile Materials for C* (Formerly PS 58-97).
- C 896-98a, *Terminology Relating to Clay Products* (new standard).

- D 121-98, *Terminology of Coal and Coke* (revised standard).
- E 6-98, *Terminology Relating to Methods of Mechanical Testing* (revised standard).
- E 943-97b, *Terminology Relating to Biological Effects and Environmental Fate* (revised standard).
- G 40-98b, *Terminology Relating to Wear and Erosion* (revised standard).

#### The following newly published standards are available from ASTM:

- A 722/A 722M-98 (includes change to title), *Specification for Uncoated High-Strength Steel Bars for Prestressing Concrete* (revised standard).
- A 995-98, *Specification for Castings, Austenitic-Ferritic (Duplex) Stainless Steel, for Pressure-Containing Parts* (new standard).
- B 889-98, *Specification for Solid Hard-Drawn Aluminum Wire for Electrical Purposes* (new standard).
- C 109/C 109M-98, *Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or 50-mm Cube Specimens)* (revised standard).
- C 219-98, *Terminology Relating to Hydraulic Cement* (revised standard).
- C 1233-98, *Practice for Determining Equivalent Boron Contents of Nuclear Materials* (revised standard).
- C 1399-98, *Test Method for Obtaining Average Residual-Strength of Fiber-Reinforced Concrete* (new standard).
- C 1404-98, *Test Method for Bond Strength of Adhesive Systems Used With Concrete as Measured by Direct Tension* (new standard).
- D 6213-97, *Practice for Tests to Evaluate the Chemical Resistance of Geogrids to Liquids* (new standard).
- D 6300-98, *Practice for Determination of Precision and Bias Data for Use in Test Methods for Petroleum Products and Lubricants* (new standard).
- D 6312-98, *Standard Guide for Developing Appropriate Statistical Approaches for Ground Water Detection Monitoring Programs* (new standard).
- D 6327-98, *Test Method for Determination of Radon Decay Product Concentration and Working Level in Indoor Atmospheres by Active Sampling on a Filter* (new standard).
- E 185-98, *Practice for Conducting Surveillance Tests for Light Water-Cooled Nuclear Power Reactor Vessels, E 706 (IF)* (revised standard).
- E 854-98, *Test Method for Application and Analysis of Solid State Track Recorder (SSTR) Monitors for Reactor Surveillance, E 706 (111b)* (revised standard).
- E 974-97, *Guide for Specifying Thermal Performance of Geothermal Power Systems* (revised standard).
- E 1008-97, *Practice for Installation, Inspection, and Maintenance of Valve Body Pressure Relief, Methods for Geothermal and Other High-Temperature Applications* (revised standard).
- E 1171-97, *Test Method for Photovoltaic Modules in Cyclic Temperature and Humidity Environments* (revised standard).
- E 1952-98, *Test Method for Thermal Conductivity and Thermal Diffusivity by Modulated Temperature Differential Scanning Calorimetry* (new standard).

## American National Standards Projects Initiated

The following is a list of proposed new American National Standards or revisions to existing American National Standards submitted to ANSI by accredited standards developers. DOE employees or contractors interested in participating in these activities should contact the appropriate standards developing organization. DOE-TSL-4 lists the DOE representatives on NGS committees. If no DOE representative is listed, contact the TSPO for information on participating in NGS activities.

### American Society of Safety Engineers

**Office:** 1800 East Oakton Street  
Des Plaines, IL 60018-2187

**Fax:** 847-296-9221

**Contact:** David deVries, [ddevries@asse.org](mailto:ddevries@asse.org)

- Z359.2, *Safety Requirements for Positioning and Restraint Systems* (new standard).

### American Society for Testing and Materials

**Office:** 100 Barr Harbor Drive  
West Conshohocken, PA 19428

**Fax:** 610-832-9666

**Contact:** Katharine Morgan, [kmorgan@astm.org](mailto:kmorgan@astm.org)

- ASTM Z7706Z, *Practice for Use of Synthetic Web Slings* (new standard).
- ASTM Z7707Z, *Specifications for Synthetic Web Slings* (new standard).

### American Welding Society (AWS)

**Office:** 550 N.W. LeJeune Road  
Miami, FL 33126

**Fax:** 305-443-5951

**Contact:** Charles Fassinger, [chuck@aws.org](mailto:chuck@aws.org)

- AWS C3.9, *Specification for Resistance Brazing* (new standard).

### National Electrical Contractors Association (NECA)

**Office:** 3 Bethesda Metro Center, Suite 1100  
Bethesda, MD 20814

**Fax:** 301-215-4500

**Contact:** H. Brooke Stauffer, [brooke@necanet.org](mailto:brooke@necanet.org)

- NECA 202, *Recommended Practice for Installing Industrial Heat Tracing Systems* (new standard).

### Underwriters Laboratories, Inc.

**Office:** 333 Pfingsten Road  
Northbrook, IL 60004

**Fax:** 847-509-6217

**Contact:** Mitchell Gold, [goldm@ul.com](mailto:goldm@ul.com)

- UL 92, *Standard for Safety for Fire Extinguisher and Booster Hose* (revision of ANSI/UL 92-1994).

## Comments, Questions, and Addresses

**Comments:** If you have any questions or comments, please contact Rick Serbu, EH-31, Manager, DOE Technical Standards Program Office (TSPO), 301-903-2856, FAX 301-903-6172, Email [Richard.Serbu@eh.doe.gov](mailto:Richard.Serbu@eh.doe.gov).

**Addresses:** To update our distribution list, please contact Marty Marchbanks, ORNL, 423-241-3658, FAX 423-574-0382, Email [mmf@ornl.gov](mailto:mmf@ornl.gov).

**Technical Standards Activities:** The TSPO would like to be kept informed of the status of technical standards that are being prepared or coordinated for DOE. Please provide this information to the TSPO at 423-574-7886, Email [lj8@ornl.gov](mailto:lj8@ornl.gov).



# Standards *Actions*

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