

**Standards Actions  
May 2003**

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Program Web Site at  
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# STANDARDS ACTIONS



**DOE Technical  
Standards Program  
Document Status**

**04-30-2003**

**Activity Summary**

In Conversion – 4

In Preparation – 51

Out for Comment – 30

Published this Month – 0



**5-year Review Status**

Revision in Progress – 11

Reaffirmation in Progress – 8

Cancellation Pending – 19

Cancellation in Progress – 4

No Current Action – 0

## DOE Technical Standards Projects Initiated

Complete listings of all DOE Technical Standards projects and their status are given on the Technical Standards Program (TSP) Web Site (<http://tis.eh.doe.gov/techstds/>). If you have any questions or are interested in this project, please contact the representative listed below. To access these lists from the home page, click on “DOE Technical Standards,” then click on “Projects” in the left-hand frame to show the links to the project lists.

- *Safeguards and Security Functional Area Standard*, Project Number TRNG-0038; Project Contact: M. Norman Schwartz, EH-53; phone 301-903-2996; fax 301-903-6172; e-mail [Norm.Schwartz@eh.doe.gov](mailto:Norm.Schwartz@eh.doe.gov).

## DOE Technical Standards Recently Sent for Coordination

The appropriate Technical Standards Managers (TSMs) will request specific reviewers to comment on these drafts. The full text of the documents is available on the TSP Web site. If you wish to comment on these documents, please notify your TSM.

- *Electrical Safety Handbook*, Project Number SAFT-0082 (revision of DOE-HDBK-1092-98), contact: Glenn Florczak, EH-53; phone 301-903-9877; fax 301-903-6172; e-mail [Glenn.Florczak@eh.doe.gov](mailto:Glenn.Florczak@eh.doe.gov). Comments are due June 2, 2003.
- *Configuration Management*, Project Number CMAN-0004 (revision of DOE-STD-1073-93), contact: Mary Haughey, EH-53; phone 301-903-2867; fax 301-903-6172; e-mail [Mary.Haughey@eh.doe.gov](mailto:Mary.Haughey@eh.doe.gov). Comments are due June 12, 2003.
- *Chemical Management Handbook, Volume 3: Chemical User Safety and Health Requirements*, Project Number SAFT-0089, contact: Gail Kleiner, EH-52; phone 301-903-5601; fax 301-903-7773; e-mail [Gail.Kleiner@eh.doe.gov](mailto:Gail.Kleiner@eh.doe.gov). Comments are due June 27, 2003.

## DOE Technical Standards Recently Published

No new standards were published this month. Published DOE Standards (DOE Standards, Specifications, Handbooks, and Technical Standards lists) may be obtained as follows:

**DOE employees and DOE contractors** may obtain copies from the ES&H Technical Information Services, U.S. Department of Energy; phone 800-473-4375, 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; phone 703-605-6000, fax 703-605-6900.

Copies are also available on the TSP Web site.

## 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*. Recent electronic copies (no

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hardcopies are produced) are available on the ANSI Web site at [http://web.ansi.org/rooms/room\\_14/](http://web.ansi.org/rooms/room_14/). Electronic back copies are available to ANSI members only. For information on site membership, ask your local ANSI contact. For information on individual or group ANSI membership, contact Susan Bose at 212-642-4948 or [sbose@ansi.org](mailto:sbose@ansi.org).

Hardcopy versions of published non-Government standards listed in this section may be obtained from Global Engineering Documents, 15 Inverness Way East, Englewood, Colorado, 80112; phone 800-854-7179; fax 303-397-2740, [global@ihs.com](mailto:global@ihs.com), <http://global.ihs.com>. Electronic delivery of selected documents is available through ANSI at <http://webstore.ansi.org>. Copies of the listed draft standards and the procedure for commenting on them may be obtained by contacting the standards developing organization.

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 more extensive 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 Web 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** (comment due dates follow each entry):

- ASME A112.18.6M-200x, *Flexible Water Connectors* (revision of ANSI/ASME A112.18.6M-1999) – June 3, 2003.
- ASME QHO-1-200x, *Qualification and Certification of Hazardous Waste Incinerator Operators* (revision of ANSI/ASME QHO-1-1994) – June 24, 2003.
- ASTM D888-200x, *Test Methods for Dissolved Oxygen in Water* (revision of ANSI/ASTM D888-1996) – June 9, 2003.
- ASTM D1129-200x, *Terminology Relating to Water* (revision of ANSI/ASTM D1129-2003) – June 9, 2003.
- ASTM D1253-200x, *Test Methods for Residual Chlorine in Water* (revision of ANSI/ASTM D1253-1996) – June 9, 2003.
- ASTM D1426-200x, *Test Methods for Ammonia Nitrogen in Water* (revision of ANSI/ASTM D1426-1998) – June 9, 2003.
- ASTM D3859-200x, *Test Methods for Selenium in Water* (revision of ANSI/ASTM D3859-1998) – June 9, 2003.
- ASTM D6239-200x, *Test Method for Uranium in Drinking Water by High-resolution Alpha-liquid-scintillation Spectrometry* (revision of ANSI/ASTM D6239-2002) – June 9, 2003.
- ASTM D6299-200x, *Practice for Applying Statistical Quality Assurance Techniques to Evaluate Analytical Measurement System Performance* (revision of ANSI/ASTM D6299-2002) – June 2, 2003.
- ASTM E262-200x, *Test Method for Determining Thermal Neutron Reaction and Fluence Rates by Radioactivation Techniques* (revision of ANSI/ASTM E262-1997) – June 2, 2003.
- ASTM E509-200x, *Guide for In-service Annealing of Light-water Cooled Nuclear Reactor Vessels* (revision of ANSI/ASTM E509-1997) – June 2, 2003.
- ASTM E844-200x, *Guide for Sensor Set Design and Irradiation for Reactor Surveillance, E 706 IIC* (revision of ANSI/ASTM E844-1997) – June 2, 2003.
- ASTM E854-200x, *Test Method for Application and Analysis of Solid State Track Recorder (SSTR) Monitors for Reactor Surveillance, E706 IIIB* (revision of ANSI/ASTM E854-1998) – June 2, 2003.
- ASTM E1005-200x, *Test Method for Application and Analysis of Radiometric Monitors for Reactor Vessel Surveillance, E 706 IIIA* (revision of ANSI/ASTM E1005-1997) – June 2, 2003.
- ASTM E1818-200x, *Practice for Dosimetry in an Electron Beam Facility for Radiation Processing at Energies Between 80 and 300 KeV* (revision of ANSI/ASTM E1818-1997) – June 2, 2003.
- ASTM F683-200x, *Practice for Selection and Application of Thermal Insulation for Piping and Machinery* (revision of ANSI/ASTM F683-2002) – June 2, 2003.
- ASTM Z8969Z-200x, *Practice for Use of a Photo-fluorescent Film Dosimetry System* (new standard) – June 10, 2003.
- B93.77M-1987, *Hydraulic fluid power – Cleanliness of parts and components – Inspection document and principles related to contaminant collection, analysis and data reporting* (new standard) – May 19, 2003.
- IEEE 1048-200x, *Guide for Protective Grounding of Power Lines* (new standard) – June 10, 2003.
- IEEE 1512.1-200x, *Standard for Traffic Incident Management Message Sets for Use by Emergency Management Centers* (new standard) – June 10, 2003.
- (NFPA) T2.12.1-200x, *Hydraulic fluid power – Systems and products – Method of measuring average steady-state pressure (to be used in conjunction with ANSI/(NFPA)T2.12.10)* (revision of ANSI/(NFPA) T2.12.1-1993) – May 19, 2003.

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- (NFPA) T2.12.10-200x, *Recommended practice – Hydraulic fluid power – Systems and products – Testing general measurement principles and tolerances (to be used in conjunction with ANSI/(NFPA)T2.12.1)* (revision of ANSI/(NFPA) T2.12.10-1993) – May 19, 2003.
  - (NFPA) T2.13.1 R3-200x, *Recommended practice – Hydraulic fluid power – Use of fire-resistant fluids in industrial systems* (revision of ANSI/(NFPA) T2.13.1 R3-1998) – May 19, 2003.
  - NSF 61-200x (i32), *Drinking Water System Components – Health Effects* (revision of ANSI/NSF 61-2000) – May 26, 2003.
  - TIA 440-B-200x, *Fiber Optic Terminology* (new standard) – May 26, 2003.
  - UL 5C-200x, *Standard for Safety for Surface Raceways and Fittings for Use with Data, Signal and Control Circuits (Bulletin Dated: April 11, 2003)* (new standard) – May 26, 2003.
  - UL 268-200x, *Smoke Detectors for Fire Protective Signaling Systems (217 Bulletin Dated: April 4, 2003)* (revision of ANSI/UL 268-2002) – May 19, 2003.
  - UL 486A-486B-200x, *Standard for Safety for Wire Connectors (Bulletin dated: April 2003)* (revision and redesignation of ANSI/UL 486A-1998) – May 11, 2003.
  - UL 864-200x, *Control Units for Fire Protective Signaling Systems (Bulletin Dated: April 9, 2003)* (new standard) – May 26, 2003.
  - UL 884-200x, *Standard for Safety for Underfloor Raceways and Fittings (Bulletin Dated: April 11, 2003)* (new standard) – May 26, 2003.
  - UL 1072-200x, *Standard for Safety for Medium-Voltage Power Cables (Bulletin Dated: April 17, 2003)* (revision of ANSI/UL 1072-2003) – June 2, 2003.
  - UL 2108-200x, *Standard for Safety for Low Voltage Lighting Systems (Bulletin Dated: May 2003)* (new standard) – June 9, 2003.
- The following American National Standards have been approved for publication.** Publication status and ordering information may be obtained from ANSI's Customer Service at 212-642-4900. (Publication is to take place within six months following the date shown.)
- ANSI/ANS 2.10-2003, *Criteria for the Handling and Initial Evaluation of Records from Nuclear Power Plant Seismic Instrumentation* (new standard) – April 14, 2003.
  - ANSI/ASME AG-1-2003, *Code on Nuclear Air and Gas Treatment* (revision of ANSI/ASME AG-1-1994) – April 10, 2003.
  - ANSI/ASME PALD-2003, *Safety Standard for Portable Automotive Lifting Devices* (revision of ANSI/ASME PALD-1997) – April 2, 2003.
  - ANSI/ASTM C709-2002, *Terminology Relating to Manufactured Carbon and Graphite* (revision of ANSI/ASTM C709-200x) – January 21, 2003.
  - ANSI/ASTM D396-2002, *Specification for Fuel Oils* (revision of ANSI/ASTM D396-2002) – January 21, 2003.
  - ANSI/ASTM D482-2002, *Test Method for Ash from Petroleum Products* (revision of ANSI/ASTM D482-2000A) – January 21, 2003.
  - ANSI/ASTM D3237-2002, *Test Method for Lead in Gasoline by Atomic Absorption Spectrometry* (revision of ANSI/ASTM D3237-1997) – January 21, 2003.
  - ANSI/ASTM D6224-2002, *Practice for In-Service Monitoring of Lubricating Oil for Auxiliary Power Plant Equipment* (revision of ANSI/ASTM D6224-1998) – January 21, 2003.
  - ANSI/IEEE 82-2002, *Standard Test Procedure for Impulse Voltage Tests on Insulated Conductors* (new standard) – March 31, 2003.
  - ANSI/IEEE 637-1985 (R2002), *Guide for the Reclamation of Insulating Oil and Criteria for Its Use* (reaffirmation of ANSI/IEEE 637-1985 (R1992)) - March 31, 2003.
  - ANSI/IEEE 945-1984 (R2002), *Recommended Practice for Preferred Metric Units for Use in Electrical and Electronics Science and Technology* (reaffirmation of ANSI/IEEE 945-1984 (R1997)) – March 31, 2003.
  - ANSI/IEEE C62.41.1-2002, *Guide on the Surge Environment in Low-Voltage (1000 V and Less) AC Power Circuits* (new standard) – April 10, 2003.
  - ANSI/NEMA MG 1-1998, *Motors and Generators (through and including Rev. 3)* (revision of ANSI/NEMA MG 1-1993) – March 27, 2003.
  - ANSI/SCTE 82-2003, *Test Method for Low Frequency and Spurious Disturbances* (new standard) – March 28, 2003.
  - ANSI/UL 489-2003, *Standard for Safety for Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures* (revision of ANSI/UL 489-2002) – April 16, 2003.
  - ANSI/UL 1479-2003, *Standard for Safety for Fire Tests of Through-Penetration Firestops* (revision of ANSI/UL 1479-1995) – March 27, 2003.
  - ANSI/UL 1581-2003, *Standard for Safety for Reference Standard for Electrical Wires, Cables, and Flexible Cords* (revision of ANSI/UL 1581-1998) – March 26, 2003.

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**The following international standards are currently in coordination** (comment due dates follow each entry):

- 45A/485/FDIS, 61468 A1 Ed. 1, *Nuclear power plants – In-core instrumentation – Characteristics and test methods of self-powered neutron detectors* – May 23, 2003.
- 89/587/FDIS, Amendment 1 to IEC 60695-11-10, Ed.1, *Fire hazard testing – Part 11-10: Test flames – 50 W horizontal and vertical flame test methods* – May 23, 2003.
- 89/588/FDIS, Amendment 1 to IEC 60695-11-20, Ed.1: *Fire hazard testing – Part 11-20: Test flames – 500 W flame test methods* – May 23, 2003.
- IEC 61010-2-010 Ed.2, *Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 2-010: Particular requirements for laboratory equipment for the heating of material* – May 30, 2003.
- ISO/DIS 32, *Gas cylinders – Colour coding* – July 19, 2003.
- ISO/DIS 19860, *Gas turbines – Data acquisition and trend monitoring system requirements for gas turbine installations* – July 5, 2003.
- ISO/DIS 19901-2, *Petroleum and natural gas industries – Specific requirements for offshore structures – Part 2: Seismic design procedures and criteria* – July 12, 2003.

**The following newly published international standards are available:**

- ISO 12005:2003, *Lasers and laser-related equipment – Test methods for laser beam parameters – Polarization*.
- ISO 12106:2003, *Metallic materials – Fatigue testing – Axial-strain-controlled method*.
- ISO 12107:2003, *Metallic materials – Fatigue testing – Statistical planning and analysis of data*.
- ISO 15384:2003, *Protective clothing for firefighters – Laboratory test methods and performance requirements for wildland firefighting clothing*.
- ISO 17666:2003, *Space systems – Risk management*.
- ISO/IEC 23271:2003, *Information technology – Common Language Infrastructure*.
- ISO/TR 15655:2003, *Fire resistance – Tests for thermo-physical and mechanical properties of structural materials at elevated temperatures for fire engineering design*.

## 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 for Quality (ASQ)

**Office:** 600 N Plankinton Ave  
Milwaukee, WI 53203

**Contact:** Erin Hogg

**Fax:** 414-270-8809

**E-mail:** [ehogg@asq.org](mailto:ehogg@asq.org)

- ASQ Z1.4-200x, *Sampling Procedures and Tables for Inspection by Attributes* (revision of ANSI/ASQC Z1.4-1993).
- ASQC Z1.9-200x, *Sampling Procedures and Tables for Inspection by Variables for Percent Non-conforming* (revision of ANSI/ASQC Z1.9-1993).

### American Nuclear Society (ANS)

**Office:** 555 North Kensington Avenue  
La Grange Park, IL 60526-5592

**Contact:** Suriya Ahmad

**Fax:** 708-352-6464

**E-mail:** [sahmad@ans.org](mailto:sahmad@ans.org)

- ANS 14.1-200x, *Operation of Fast Pulse Reactors* (revision of ANSI/ANS 14.1-1975 (R2000)).

### CSA America Inc. (CSA)

**Office:** 8501 East Pleasant Valley Road  
Cleveland, OH 44131-5575

**Contact:** Allen Callahan

**Fax:** 216-642-3463

**E-mail:** [al.callahan@csa-america.org](mailto:al.callahan@csa-america.org)

- CSA HV1-200x, *Standard for Hydrogen Vehicle Fueling Connection Devices* (new standard).

### Institute of Electrical and Electronics Engineers (IEEE)

**Office:** 445 Hoes Lane, P.O. Box 1331  
Piscataway, NJ 08855-1331

**Contact:** Angela Ortiz

**Fax:** 732-562-1571

**E-mail:** [a.ortiz@ieee.org](mailto:a.ortiz@ieee.org)

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- IEEE 1645-200x, *Guide for In-Service Classification of Damage to Non-Ceramic Insulators* (new standard).
- IEEE C62.50-200x, *Standard for Performance Criteria and Test Methods of Plug-in, Portable, Multipoint (Multiservice) Surge-Protective Devices for Equipment Connected to 120/240 V Single Phase Power Service and Communications Lines* (new standard).

### National Fire Protection Association (NFPA)

**Office:** One Batterymarch Park  
Quincy, MA 02269-9101

**Contact:** Arthur Cote

**Fax:** 617-770-3500

**E-mail:** [acote@nfpa.org](mailto:acote@nfpa.org)

- NFPA 12-200x, *Standard on Carbon Dioxide Extinguishing Systems* (revision of ANSI/NFPA 12-2000).
- NFPA 12A-200x, *Standard on Halon 1301 Fire Extinguishing Systems* (revision of ANSI/NFPA 12A-1997).
- NFPA 15-200x, *Standard for Water Spray Fixed Systems for Fire Protection* (revision of ANSI/NFPA 15-2001).
- NFPA 76-200x, *Recommended Practice for the Fire Protection of Telecommunications Facilities* (revision of ANSI/NFPA 76-2002).
- NFPA 241-200x, *Standard for Safeguarding Construction, Alteration, and Demolition Operations* (revision of ANSI/NFPA 241-2000).
- NFPA 329-200x, *Recommended Practice for Handling Releases of Flammable and Combustible Liquids and Gases* (revision of ANSI/NFPA 329-1999).
- NFPA 422-200x, *Guide for Aircraft Accident Response* (revision of ANSI/NFPA 422-1999).
- NFPA 850-200x, *Recommended Practice for Fire Protection for Electric Generating Plants and High Voltage Direct Current Converter Stations* (revision of ANSI/NFPA 850-2000).
- NFPA 1035-200x, *Standard for Professional Qualifications for Public Fire and Life Safety Educator* (revision of ANSI/NFPA 1035-2000).
- NFPA 1410-200x, *Standard on Training for Initial Emergency Scene Operations* (revision of ANSI/NFPA 1410-2000).

- NFPA 1561-200x, *Standard on Emergency Services Incident Management System* (revision of ANSI/NFPA 1561-2002).
- NFPA 1991-200x, *Standard on Vapor-Protective Ensembles for Hazardous Materials Emergencies* (revision of ANSI/NFPA 1991-2000).
- NFPA 1992-200x, *Standard on Liquid Splash-Protective Ensembles and Clothing for Hazardous Materials Emergencies* (revision of ANSI/NFPA 1992-2000).
- NFPA 5000-200x, *NFPA Building Construction and Safety Code* (revision of ANSI/NFPA 5000-2002).

### ASTM International

Standards activities of ASTM International (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, PA 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 Web 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 May 10, 2003):

- A 193/A 193M-01b, *Specification for Alloy-steel and Stainless Steel Bolting Materials for High-temperature Service* – revised standard.
- A 194/A 194M-03, *Specification for Carbon and Alloy Steel Nuts for Bolts for High Pressure or High Temperature Service, or Both* – revised standard.
- A 841/A 841M-01, *Specification for Steel Plates for Pressure Vessels, Produced by Thermo-Mechanical Control Process (TMCP)* – revised standard.
- B 349/B 349M-01, *Specification for Zirconium Sponge and Other Forms of Virgin Metal for Nuclear Application* – revised standard.
- D 2386-01, *Test Method for Freezing Point of Aviation Fuels* – revised standard.

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- D 6299-02, *Practice for Applying Statistical Quality Assurance Techniques to Evaluate Analytical Measurement System Performance* – revised standard.
- E 338-91(1997), *Test Method for Sharp-notch Tension Testing of High-strength Sheet Materials* – revised standard.
- F 1789-02b, *Terminology for F16 Mechanical Fasteners* – revised standard.
- G 15-02, *Terminology Relating to Corrosion and Corrosion Testing* – revised standard.
- G 119-93(1998), *Guide for Determining Synergism Between Wear and Corrosion* – revised standard.

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

- A 148/A 148M-02, *Specification for Steel Castings, High Strength, for Structural Purposes* – revised standard.
- A 269-02a, *Specification for Seamless and Welded Austenitic Stainless Steel Tubing for General Service* – revised standard.
- D 1068-03, *Test Methods for Iron in Water* – revised standard.
- E 176-02, *Terminology of Fire Standards* – revised standard.
- E 1419-02b, *Test Method for Examination of Seamless, Gas-filled, Pressure Vessels Using Acoustic Emission* – revised standard.
- E 2061-02a, *Guide for Fire Hazard Assessment of Rail Transportation Vehicles* – revised standard.
- E 2216-02, *Guide for Evaluating Disposal Options for Concrete from Nuclear Facility Decommissioning* – new standard.

### Comments, Questions, and Addresses

Comments: If you have any questions or comments, please contact Rick Serbu, EH-53, Manager, DOE Technical Standards Program Office (TSPO), Phone 301-903-2856, Fax 301-903-6172, [Richard.Serbu@eh.doe.gov](mailto:Richard.Serbu@eh.doe.gov).

Addresses: *Standards Actions* and *The Standards Forum* are electronic newsletters available on the TSP Web Site (<http://tis.eh.doe.gov/techstds/>). To update your mailing and e-mail addresses, please contact Debbie Queener, ORNL, Phone 865-574-0398, Fax 865-574-8481, [queenerds@ornl.gov](mailto:queenerds@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 865-574-0398, [queenerds@ornl.gov](mailto:queenerds@ornl.gov).