Standards Actions—
November 2001

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Standards Actions

DOE Technical Standards Program Document Status

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Activity Summary

In Conversion – 4

In Preparation – 40

Out for Comment – 15

Published this Month – 0

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DOE Technical Standards Recently Published

Copies of DOE Technical Standards (i.e., DOE Standards, Specifications, Handbooks, and Technical Standards Lists) are available on the TSP Web Site.

DOE employees and DOE contractors may obtain copies from the ES&H Technical Information Services, U.S. Department of Energy; 1-800-473-4375, 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; 703-605-6000, Fax 703-605-6900.

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 hardcopies are produced) are available on the ANSI Web site at **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**.

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, 800-854-7179, Fax 303-397-2740, **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)**:**

- ANS 57.2, *Design Requirements for Light Water Reactor Spent Fuel Storage Facilities at Nuclear Power Plants* (new standard) – January 2, 2002.
- ANS 57.3, *Design Requirements for New Fuel Storage Facilities at Light Water Reactor Plants* (new standard) – January 2, 2002.

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- ANS 58.9, *Application of the Single Failure Criterion for Light Water Reactor Safety-Related Fluid Systems* (new standard) – January 2, 2002.
- ANS 56.8-1994, *Nuclear Reactors Containment System Leakage Testing Requirements* (revision of ANSI/ANS 56.8-1994) – January 2, 2002.
- API 8B/ISO 135334, *Recommended Practice for Procedures for Inspections, Maintenance, Repair, and Remanufacture of Hoisting Equipment* (new standard) – November 19, 2001.
- ASME B31.3, *Process Piping* (revision of ANSI/ASME B31.3-1999 Edition) – January 2, 2002.
- ASME B89.1.9M-1984 (R1997), *Precision Gage Blocks for Length Measurement (Through 20 in and 500 mm)* (revision of ANSI/ASME B89.1.9M-1984 (R1997)) – January 2, 2002.
- ASME B89.7.3.1, *Guidelines for Decision Rules: Considering Measurement Uncertainty in Determining Confirmation to Specification* (new standard) – November 19, 2001.
- ASTM C838, *Test Method for Bulk Density of As-Manufactured Carbon and Graphite Shapes* (new standard) – December 4, 2001.
- ASTM D5926, *Specification for Poly (Vinyl Chloride) (PVC) Gaskets for Drain, Waste and Vent (DWV), Sewer, Sanitary and Storm Plumbing Systems* (revision of ANSI/ASTM D5926-96) – December 17, 2001.
- ASTM F683, *Practice for Selection and Application of Thermal Insulation for Piping and Machinery* (revision of ANSI/ASTM F683-01) – December 17, 2001.
- ASTM F1546/F1546M, *Specification for Fire Hose Nozzles* (reaffirmation of ANSI/ASTM F1546) – December 17, 2001.
- AWS C3.2, *Method for Evaluating the Strength of Brazed Joints* (revision of ANSI/AWS C3.2-1982 (R1992)) – December 4, 2001.
- EIA 364-70B, *Temperature Rise Versus Current Test Procedure for Electrical Connectors and Sockets* (revision of ANSI/EIA 364-70A-1998) – January 2, 2002.
- UL 745-1, *Standard for Portable Electric Tools* (Revision of ANSI/UL 745 Series-1996) – November 19, 2001.
- UL 924, *Standard for Safety for Emergency Lighting and Power Equipment* (new standard) – December 17, 2001.
- UL 2085, *Standard for Safety for Insulated Aboveground Tanks for Flammable and Combustible Liquids* (revision of ANSI/UL 2085-1999) – November 19, 2001.

The following American National Standards have been approved for publication (Publication is to take place within six months following the date shown. Publication status and ordering information may be obtained from ANSI's Customer Service at 212-642-4900.)**:**

- ANSI/ASHRAE 33-2001, *Methods of Testing Forced Circulation Air Cooling and Air Heating Coils* (new standard) – September 7, 2001.
- ANSI/ASHRAE 41.1-1986 (R2001), *Standard Method for Temperature Measurement* (revision of ANSI/ASHRAE 41.1-1986 (R1991)) – October 10, 2001.
- ANSI/ASME B30.17b-2001, *Overhead and Gantry Cranes (Top Running Bridge, Single Girder, Underhung Hoist)* (supplement to ANSI/ASME B30.17-1998) – October 4, 2001.
- ANSI/ASME B73.1M-2001, *Horizontal End Suction Centrifugal Pumps for Chemical Process, Specifications* (revision of ANSI/ASME B73.1M-1991 (R1999)) – September 7, 2001.
- ANSI/ASME B133.7M-1985 (R2001), *Fuels, Gas Turbine* (reaffirmation of ANSI/ASME B133.7M-1985 (R1992)) – October 11, 2001.
- ANSI/ASME B133.12-1981 (R2001), *Gas Turbines—Procurement Standard—Maintenance and Safety* (reaffirmation of ANSI B133.12-1981 (R1994)) – October 11, 2001.
- ANSI/AWS A1.1-01, *Metric Practice Guide for the Welding Industry* (revision of ANSI/AWS A1.1-98) – October 11, 2001.
- ANSI/NEMA ICS 8-2001, *Industrial Control and Systems Crane and Hoist Controllers* (revision of ANSI/NEMA ICS 8-1996) – October 1, 2001.

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

- IEC 60761-1, *Equipment for continuous monitoring of radioactivity in gaseous effluents—Part 1: General requirements* – December 7, 2001.
- IEC 60761-2, *Equipment for continuous monitoring of radioactivity in gaseous effluents—Part 2: Specific requirements for radioactive aerosol monitors including transuranic aerosols* – December 7, 2001.

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- IEC 60761-3, *Equipment for continuous monitoring of radioactivity in gaseous effluents—Part 3: Specific requirements for radioactive noble gas monitors* – December 7, 2001.
- IEC 60761-4, *Equipment for continuous monitoring of radioactivity in gaseous effluents—Part 4: Specific requirements for radioactive iodine monitors* – December 7, 2001.
- IEC 60761-5, *Equipment for continuous monitoring of radioactivity in gaseous effluents—Part 5: Specific requirements for tritium monitors* – December 7, 2001.
- IEC 61010-2-081 Ed. 1.0, *Safety requirements for electrical equipment for measurement, control, and laboratory use—Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes* – November 9, 2001.
- ISO/DIS 7240-2, *Fire detection and alarm systems—Part 2: Control and indicating equipment* – December 29, 2001.
- ISO/DIS 7240-4, *Fire detection and alarm systems—Part 4: Power supply equipment* – December 29, 2001.
- ISO/DIS 7240-7, *Fire detection and alarm systems—Part 7: Smoke point detectors using scattered light, transmitted light or ionization* – December 29, 2001.
- ISO/DIS 17294-2, *Water quality—Application of inductively coupled plasma mass spectrometry (ICP-MS)—Part 2: Determination of 61 elements* – January 3, 2002.
- prEN 1011-1:1998/prA1, *Welding – Recommendations for welding of metallic materials—Part 1: General guidance for arc welding* – December 20, 2001.
- prEN 12566-3, *Small wastewater treatment systems for up to 50 PT—Part 3: Packaged and/or site assembled domestic wastewater treatment plants* – December 20, 2001.
- prEN 12780, *Water quality - Detection and enumeration of Pseudomonas aeruginosa by membrane filtration* – for information.
- prEN 13528-3, *Ambient air quality—Diffusive samplers for the determination of concentrations of gases and vapours—Part 3: Guide to selection, use and maintenance* – March 20, 2002.
- prEN ISO 1716, *Reaction to fire tests for building products—Determination of the gross calorific value* (ISO/FDIS 1716: 2001) – for information.
- prEN ISO 17662, *Welding—Calibration, verification and validation of equipment used for welding, including ancillary activities* (ISO/DIS 17622:2001) – January 13, 2002.
- prENV 14310, *Freight transportation services—Declaration and reporting of environmental performance in freight transport chains* – for information.

The following newly published international standards are available:

- ISO 11933-5:2001, *Components for containment enclosures—Part 5: Penetrations for electrical and fluid circuits*.
- ISO 13919-2:2001, *Welding—Electron and laser beam welded joints—Guidance on quality levels for imperfections—Part 2: Aluminum and its weldable alloys*.
- ISO 15080:2001, *Nuclear facilities—Ventilation penetrations for shielded enclosures*.
- ISO 15383:2001, *Protective gloves for firefighters—Laboratory test methods and performance requirements*.
- ISO 15489-1:2001, *Information and documentation—Records management—Part 1: General*.
- ISO 16200-1:2001, *Workplace air quality—Sampling and analysis of volatile organic compounds by solvent desorption/gas chromatography—Part 1: Pumped sampling method*.
- ISO 17495:2001, *Water quality—Determination of selected nitrophenols—Method by solid-phase extraction and gas chromatography with mass spectrometric detection*.

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 Industrial Hygiene Association

Office: 2700 Prosperity Avenue, Suite 250
Fairfax, VA 22031
Fax: (703) 207-8558
Contact: Margie Breida, **mbreida@aiha.org**

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- AIHA Z9.8, *Fundamentals Governing the Management, Operation, Maintenance, and Testing of Existing HVAC Systems for Maintaining Acceptable Indoor Air Quality in Employee Occupancies through Dilution Ventilation* (new standard).

American Nuclear Society

Office: 555 North Kensington Avenue
La Grange Park, IL 60526-5592
Fax: 708-352-6464
Contact: Suriya Ahmad, **sahmad@ans.org**

- ANS 57.2, *Design Requirements for Light Water Reactor Spent Fuel Storage Facilities at Nuclear Power Plants* (new standard).
- ANS 57.3, *Design Requirements for New Fuel Storage Facilities at Light Water Reactor Plants* (new standard).

American Petroleum Institute

Office: 1220 L Street NW
Washington, D.C. 20005
Fax: 202-962-4797
Contact: Brad Bellinger, **bellingerb@api.org**

- API 8C, *Specification for Drilling and Production Hoisting Equipment* (4th edition) (new standard).

Institute of Electrical and Electronics Engineers

Office: 445 Hoes Lane
P.O. Box 1334
Piscataway, NJ 08855-1331
Fax: 732-562-1571
Contact: Susan Vogel, **s.vogel@ieee.org**

- N42.20-1995, *Performance Criteria for Active Personnel Radiation Monitors* (reaffirmation of ANSI N42.20-1995).

Contact: Naeem Ahmad, **n.ahmad@ieee.org**

- ANSI/IEEE 1147, *Guide for the Rehabilitation of Hydroelectric Power Plants* (revision of ANSI/IEEE 1147-1991 (R1996)).
- IEEE C62.11, *Standard for Metal-Oxide Surge Arresters for AC Power Circuits (> 1 kV)* (revision of ANSI/IEEE C62.11-1999).
- IEEE 622-1987 (R1995), *Recommended Practice for the Design and Installation of Electrical Heat Tracing Systems for Nuclear Power Generating Stations* (revision of ANSI/IEEE 622-1987 (R1995)).

Underwriters Laboratories, Inc.

Office: 1655 Scott Boulevard
Santa Clara, CA 95050
Fax: 408-556-6153
Contact: Linda Phinney, **Linda.L.Phinney@us.ul.com**

- UL 1323, *Standard for Safety for Scaffold Hoists* (new standard).

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 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.

<u>The following ASTM standards are currently in coordination</u> (the due date for all items is November 10, 2001):

- B 352-97, *Specification for Zirconium and Zirconium Alloy Sheet, Strip, and Plate for Nuclear Application* (revised standard).
- B 353-00, *Specification for Wrought Zirconium and Zirconium Alloy Seamless and Welded Tubes for Nuclear Service Except Nuclear Fuel Cladding* (revised standard).
- B 811-97, *Specification for Wrought Zirconium Alloy Seamless Tubes for Nuclear Reactor Fuel Cladding* (revised standard).
- D 5504-98, *Test Method for Determination of Sulfur Compounds in Natural Gas and Gaseous Fuels by Gas Chromatography and Chemiluminescence Detection* (revised standard).
- D 5608-94 (Includes change to title), *Practice for Decontamination of Field Equipment Used at Low-Level Radioactive Waste Sites* (revised standard).

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- G 40-01, *Terminology Relating to Wear and Erosion*, (revised standard).
- New Standard, *Practice for Low-Flow Purging and Sampling of Ground-Water Monitoring Wells Associated with Waste Management Activities* (ref. D6679).
- New Standard, *Test Methods for Scratch Hardness of Materials Using a Diamond Stylus* (ref. Z9082Z).

The following newly published standards are available from ASTM:

- D 5498-01, *Guide for Developing a Training Program for Coating Work Inspectors in Nuclear Facilities* (revised standard).
- D 6689-01, *Guide for Optimizing, Controlling and Reporting Test Method Uncertainties from Multiple Workstations in the Same Laboratory Organization* (new standard).
- E 84-01, *Test Method for Surface Burning Characteristics of Building Materials* (revised standard).
- E 2150-01, *Classification for Life-Cycle Environmental Work Element—Environmental Cost Element Structure* (new standard).
- F 1891-01, *Specification for Arc and Flame Resistant Rainwear* (revised standard).
- F 1940-01, *Test Method for Process Control Verification to Prevent Hydrogen Embrittlement in Plated or Coated Fasteners* (revised 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), 301-903-2856, Fax 301-903-6172, **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 Amy Bush, ORNL, 865-576-2395, Fax 865-574-8481, **bushar@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 865-576-2395, **bushar@ornl.gov**.