



# Standards *Actions*

## Documents Recently Published

The following DOE documents have recently been published:

- DOE-SPEC-3018-96, *Flooded-Type Lead-Acid Storage Batteries*, August 1996.
- DOE-SPEC-3019-96, *Valve-Regulated Type Lead-Acid Storage Batteries*, August 1996.
- DOE-TSL-1-96, *Department of Energy Standards Index*, August 1996.
- DOE-TSL-4-96, *Directory of DOE and Contractor Personnel Involved in Non-Government Standards Activities*, August 1996.

DOE employees and DOE contractors may obtain copies from the DOE Office of Scientific and Technical Information (OSTI), P.O. Box 62, Oak Ridge, Tennessee 37831; telephone 423-576-8401 or FAX 423-576-2865.

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 703-487-4650 or FAX 703-321-8547.

The Technical Standards Program is sponsoring a project at OSTI to place *all* DOE technical standards (i.e., DOE Standards, Specifications, Handbooks, and Technical Standards Lists) on the Internet. To date, 106 DOE technical standards have been placed on the Internet at the address shown at the bottom of this page.

The following DOE technical standards have recently been placed on the Internet:

- DOE-HDBK-3012-96, *Guide to Good Practices for Operational Readiness Reviews (ORR), Team Leader Guide*, June 1996.
- DOE-SPEC-3018-96, *Flooded-Type Lead-Acid Storage Batteries*, August 1996.
- DOE-SPEC-3019-96, *Valve-Regulated Type Lead-Acid Storage Batteries*, August 1996.
- DOE-TSL-1-96, *Department of Energy Standards Index*, August 1996.
- DOE-TSL-4-96, *Directory of DOE and Contractor Personnel Involved in Non-Government Standards Activities*, August 1996.

## 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 Bethany Marks at 212-642-4948. For further information on distribution policies of ANSI publications, call the ANSI distribution manager at 212-642-4952.

### Technical Standards Program Document Status as of 9/30/96

In Conversion	In Preparation	Out for Comment	Published in Past 30 Days
23	72	20	4

**Total in process = 92**



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.

#### **The following American National Standards are currently in coordination:**

- ANS 8.23, *Criticality Safety Accident Emergency Planning and Response* (new standard); comments due November 12, 1996.
- ARI 500, *Variable Capacity Displacement Refrigerant Compressors and Compressor Units for Air-Conditioning & Heat Pump Application* (new standard); comments due November 12, 1996.
- ARI 540, *Method for Presentation of Compressor Performance Data* (new standard); comments due November 12, 1996.
- ARI 560, *Absorption Water Chilling and Water Heating Packages* (new standard); comments due November 12, 1996.
- ARI 580, *Performance of Non-Condensable Gas Purge Equipment for Use With Low Pressure Centrifugal Liquid Chiller* (new standard); comments due November 12, 1996.



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

- ASME BPVC Section VIII, *Division 3-1997, Alternative Rules for Construction of High Pressure Vessels* (new standard); comments due October 29, 1996.
- ASME PALD, *Portable Automotive Lifting Devices* (revision of ANSI/ASME PALD-1993); comments due October 29, 1996.
- ASME QME-1a, *Qualification of Active Mechanical Equipment Used in Nuclear Power Plants* (supplement to ASME QME-1-1994); comments due October 29, 1996.
- ASTM D396, *Specification for Fuel Oils* (revision of ANSI/ASTM D396-92); comments due October 29, 1996.
- ASTM D4865, *Generation and Dissipation of Static Electricity in Petroleum Fuel Systems, Guide for the* (revision of ANSI/ASTM D4865-91); comments due October 29, 1996.
- ASTM D5056, *Test Method for Trace Metals in Petroleum Coke by Atomic Absorption* (new standard); comments due October 29, 1996.
- ASTM D5949, *Test Method for Pour Point of Petroleum Products (Automatic Pressure Pulsing Method)* (new standard); comments due October 29, 1996.
- ASTM Z6053Z, *Test Method for Semi-Quantitative Field Test Method for Base Number in Petroleum Products by Color-Indicator Titration* (new standard); comments due October 29, 1996.
- EIA SP-3653 (if approved, to be published as ANSI/EIA 364-92), *Wire Bending Test Procedure for Insulation Displacement Contacts (IDC) for Electrical Connectors* (new standard); comments due October 29, 1996.
- IEEE C57.12.35-1996, *Bar Coding for Distribution Transformers* (new standard); comments due October 29, 1996.
- IEEE 1144-1996, *Recommended Practice for Sizing of Industrial Nickel-Cadmium Batteries for Photovoltaic (PV) Systems* (new standard); comments due October 29, 1996.
- IEEE 1307-1996, *Guide for Fall Protection for the Utility Industry* (new standard); comments due October 29, 1996.
- IEEE 1325-1996, *Recommended Practice for Reporting of Power Circuit Breaker Field Failures* (new standard); comments due October 29, 1996.
- ISO/ASQC/Q9000-2, *Quality Management and Quality Assurance Standards-Part 2: Generic Guidelines for the Application of ISO 9001, ISO 9002 and ISO 9003* (adoption of International Standard) (new standard); comments due November 12, 1996.
- ISO/ASQC Q10006, *Quality Management - Guidelines to Quality in Project Management* (adoption of International Standard) (new standard); comments due November 12, 1996.
- ISO/ASQC Q10014, *Guidelines for Managing the Economics of Quality* (adoption of International Standard) (new standard); comments due November 12, 1996.
- N42.25-1996, *Calibration and Usage of Alpha/Beta Proportional Counters* (new standard); comments due October 29, 1996.
- N322-1996, *Inspection, Test, Construction and Performance Requirements for Direct Reading Electrostatic/Electroscope Type Dosimeters* [revision of ANSI N322-1977 (R1991)]; comments due October 29, 1996.
- UL 296A, *Standard for Safety for Waste Oil-Burning Air-Heating Appliances* (new standard); comments due October 29, 1996.

- UL 793, *Standard for Safety for Automatically Operated Roof Vents for Smoke and Heat* (new standard); comments due November 12, 1996.

**The following newly published American National Standards are available from ANSI:**

- ANSI C2-1997, *National Electrical Safety Code*.
- ANSI/ASME CSD-1a-1996, *Controls and Safety Devices for Automatically Fired Boilers* (supplement to ANSI/ASME CSD-1-1995).
- ANSI/API 560-1996, *Fired Heaters for General Refinery Services*.
- ANSI/AWWA C111/A21.11-95, *Rubber Gasket Joints for Ductile-Iron Pressure Pipe and Fittings*.
- ANSI/ISA S67.10-1994, *Sample-Line Piping and Tubing Standard for Use in Nuclear Power Plants*.

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

- 45/388/FDIS, *Nuclear instrumentation - Thickness measurement systems utilizing ionizing radiation - Definitions and test methods* - October 15, 1996.
- ISO/DIS 11564, *Stationary source emissions - Determination of mass concentration of nitrogen oxides - Naphthylethylenediamine photometric method* - November 15, 1996.
- prEN 140 REVIEW, *Respiratory protective devices - Half masks and quarter masks - Requirements, testing marking* - January 8, 1997.
- prEN 442-3, *Radiators and convectors - Part 3: Evaluation of conformity* - January 28, 1997.
- prEN 1279-4, *Glass in building - Insulating glass units - Part 4: Methods of test for the physical attributes of edge seals* - January 1, 1997.
- prEN 1846-2, *Firefighting and rescue service vehicles - Part 2: Common requirements - Safety and performance* - January 1, 1997.
- prEN 1869, *Fire blankets (for information)*.
- prEN 12008-3, *Functional requirements for the materials, design, construction, operation, maintenance and renovation of gas supply systems up to and including 16 bar - Part 3: Renovation* - January 1, 1997.
- prEN 12474, *Cathodic protection for submarine pipelines* - December 11, 1996.
- prEN 12493, *Design and manufacture of welded steel tanks for LPG road tankers* - January 1, 1997.
- prEN 12514-1, *Installations for oil supply systems for oil burners - Part 1: Safety requirements and test - Parts, oil feed pumps, control and safety devices, supply tanks* - January 8, 1997.

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

- IEC 50 (481): 1996, *International Electrotechnical Vocabulary - Chapter 481: Primary cells and batteries*.
- IEC 300-3-4: 1996, *Dependability management - Part 3: Application guide - Section 4: Guide to the specification of dependability requirements*.

- IEC 871-4: 1996, *Shunt capacitors for a.c. power systems having a rated voltage above 1 000 V - Part 4: Internal fuses.*
- IEC 935: 1996, *Nuclear instrumentation - Modular high speed data acquisition system - FASTBUS.*
- IEC 1334-5-1: 1996, *Distribution automation using distribution line carrier systems - Part 5: Lower layer profiles - Section 1: Spread Frequency Shift Keying (S-FSK) profile.*
- IEC 1510: 1996, *RBMK nuclear reactors - Proposals for instrumentation and control improvements.*
- ISO 7250: 1996, *Basic human body measurements for technological design.*
- ISO 7919-1: 1996, *Mechanical vibration of non-reciprocating machines - Measurements on rotating shafts and evaluation criteria - Part 1: General guidelines.*
- ISO 9972: 1996, *Thermal insulation - Determination of building airtightness - Fan pressurization method.*

### 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 610-832-9692. 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 610-832-9743 (FAX 610-832-9666). ASTM is developing a World Wide Web home page. The current version can be visited at <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 September 10, 1996).

- Emergency Standard, *Practice for Procedures for the Assessment of Buried Steel Tanks Prior to the Addition of Cathodic Protection* (Formerly ES 40).
- New Standard, *Guide for Planning, Writing, and Reviewing Geotechnical Reports* (Ref. Z3768Z).
- New Standard, *Practice for Using Significant Digits in Calculating and Reporting Geotechnical Test Data* (Ref. Z4764Z).
- New Standard, *Test Method for Logging in situ Moisture Content and Density of Soil and Rock by the Nuclear Method in Horizontal, Slanted and Vertical Access Tubes* (Ref. Z5733Z).
- New Standard, *Guide for Displaying the Results of Chemical Analyses of Ground Water for Major Ions and Trace Elements - Use of Maps* (Ref. Z6217Z).
- New Standard, *Guide for Personal Samplers of Health-Related Aerosol Fractions [Metric]* (Ref. Z5643Z).
- New Standard, *Test Method for Stability of Insulating Oils of Petroleum Origin Under Electrical Discharge* (Ref. Z5250Z).
- New Standard, *Guide for Representative Sampling of Management of Waste and Contaminated Media* (Ref. Z3698Z).
- New Standard, *Guide for Sampling of Drums and Similar Containers by Field Personnel* (Ref. Z4172Z).

- New Standard, *Guide for Sampling Waste Piles* (Ref. Z4802Z).
- New Standard, *Test Methods for Determining the Mechanical Integrity of Photovoltaic Modules* (Ref. Z6065Z).
- New Standard, *Guide for Use of Coal Combustion By-Products in Structural Fills* (Ref. Z2887Z).
- New Standard, *Guide for Environmental Site Assessments: Phase II Environmental Site Assessment Process* (Ref. Z5282Z).
- New Standard, *Guide for Selection of Communication Systems for Oil Spill Response* (Ref. Z5934Z).
- D 2477-84(1990), *Test Method for Dielectric Breakdown Voltage and Dielectric Strength of Insulating Gases at Commercial Power Frequencies* (revised standard),
- D 4490-90, *Practice for Measuring the Concentration of Toxic Gases or Vapors Using Detector Tubes* (revised standard).
- E 176-95, *Terminology of Fire Standards* (revised standard).
- E 1008-84(1991), *Practice for Installation, Inspection, and Maintenance of Valve Body Pressure Relief, Methods for Geothermal and Other High-Temperature Applications* (revised standard).

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

- C 637-96, *Specification for Aggregates for Radiation-Shielding Concrete* (revised standard).
- D 2234-96, *Test Methods for Collection of a Gross Sample of Coal* (revised standard).
- D 3864-96, *Guide for Continual On-Line Monitoring Systems for Water Analysis* (revised standard).
- D 5839-96, *Test Method for Trace Element Analysis of Hazardous Waste Fuel by Energy-Dispersive X-Ray Fluorescence Spectrometry* (new standard).
- D 5911-96, *Practice for Minimum Set of Data Elements to Identify a Soil Sampling Site* (new standard).
- D 5924-96, *Guide for the Selection of Simulation Approaches in Geostatistical Site Investigations* (new standard).
- D 5954-96, *Test Method for Mercury Sampling and Measurement in Natural Gas* (new standard).
- E 1036/E 1036M-96, (Includes change to title), *Test Methods for Electrical Performance of Non-Concentrator Terrestrial Photovoltaic Modules and Arrays Using Reference Cells [Metric]* (revised standard).
- E 1690-95, *Method for the Determination of Ethanol Extractives in Biomass* (new standard).
- E 1720-95, *Test Method for Determining Ready, Ultimate, Biodegradability of Organic Chemicals in a Sealed Vessel CO<sub>2</sub>-Production Test* (new standard).
- F 1693-85, *Guide for Consideration of Bioremediation as an Oil Spill Response Method on Land* (new standard).
- PS 26-96, *Guide for Development and Implementation of a Source Reduction Program* (new standard - Environmental Assessment).
- PS 52-96, *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* (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.

### Institute of Electrical and Electronics Engineers

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

**Contact:** Luigi Napoli

- N42.14, *Calibration and Use of Germanium Spectrometers for the Measurement of Gamma-Ray Emission Rates of Radionuclides* (revision).

### Underwriters Laboratories, Inc.

**Office:** Laboratory Drive  
Research Triangle Park, NC 27709-3995

**Contact:** Sonya Bird

- UL 218, *Standard for Safety for Fire Pump Controllers* (new standard).
- UL 1254, *Standard for Safety for Pre-Engineered Dry Chemical Extinguishing System Units* (new standard).

**Office:** 333 Pfingsten Road  
Northbrook, IL 60062-2096

**Contact:** Alan McGrath

- UL 2279, *Standard for Safety for Electrical Equipment for Use in Class 1, Zone 0, 1 and 2 Hazardous (Classified) Locations* (new standard).

**Office:** 1285 Walt Whitman Road  
Melville, NY 1174-3081

**Contact:** Steve Dinowitz

- UL 1424, *Standard for Safety for Cables for Power-Limited Fire-Alarm Circuits* (new standard).

## Comments or Questions

If you have any questions or comments, please contact Rick Serbu (EH-31), Manager, DOE Technical Standards Program Office (TSPO), phone 301-903-2856, FAX 301-903-6172, Email [Richard.Serbu@eh.doe.gov](mailto:Richard.Serbu@eh.doe.gov). Questions or comments may also be referred to Don Spellman, c/o Performance Assurance Project Office, Oak Ridge National Laboratory, P.O. Box 2009, Oak Ridge, Tennessee 37831-8065, phone 423-574-7891, FAX 423-574-0382, Email [spellmandj@ornl.gov](mailto:spellmandj@ornl.gov).

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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