

The Standards



Forum

Volume 3, Number 2 - September 1995

News on the DOE Technical Standards Program



ISO 14000 - An Update

Article contributed by Mary McKiel, U.S. Environmental Protection Agency

The International Organization for Standardization (ISO) is developing Environmental Management Standards through ISO Technical Committee (TC) 207. The standards are known as the "ISO 14000" series.¹ The standards will cover a broad array of environmental topics including environmental management systems, eco-labeling, life cycle assessment, environment performance evaluation indicators, and environmental aspects in product standards.

The standards are management based, not performance based, and are intended to be applicable to virtually all sectors from manufacturing to Federal facilities to academia. Many anticipate that conformance to the proposed ISO 14001, *Environmental Management Systems Specification*² standard, will play an increasingly important role in both national and international markets.

The TC-207 held its annual meeting recently in Oslo, Norway. A major outcome of the meeting is that the 14001 specification document has been approved for release as a Draft International Standard. Under the ISO process, that means a completed standard could be available as soon as mid-1996. Already, some U.S. companies are preparing to adopt ISO 14001 and are asking questions such as these: Who will do third-party certifications in the U.S.? Will self-declaration be accepted? Is the U.S.

Notice...

1995 WORKSHOP POSTPONED

New dates are April 10-12, 1996

See Page 14 for Details

Environmental Protection Agency (EPA) going to do anything with the ISO standards?

There are more questions than answers at this point. However, the ISO process is moving with almost uncharacteristic speed. In addition to the management system specification standard, it is likely that guideline standards for labeling and auditing will be available by late 1996 or early 1997.

The EPA has been an active participant in the U.S. representation to TC-207 from its inception. The Standards Network was established specifically to coordinate EPA's input and growing interest in the development of these standards. Voluntary programs within EPA -- for example, the Environmental Leadership Pilot Projects -- are looking at ways to help the regulated community more efficiently and effectively achieve compliance with regulations in a cross-media, holistic approach. The ISO standards are one very important tool in that area.

¹ By analogy, the better known ISO Quality Management Standards, promulgated by Technical Committee 176, are the "9000 series."

² All of the other standards underway through TC-207 are guideline standards, not intended for certification purposes.



DOE: Taking the Lead on Environmental Management Systems

Article contributed by J. Lawrance Stirling, Office of Environmental Policy & Assistance, U.S. Department of Energy (DOE)

As part of the EH Directives Streamlining initiative, DOE Order 450 replaces over 300 environmental requirements with one basic requirement: sites must adopt a site-wide Environmental Management System (EMS). ISO 14001 is emerging as the internationally recognized EMS standard. ISO 14001 is not required under Order 450. Sites can choose an EMS best suited to their conditions and concerns. However, ISO 14001 provides an excellent framework for cost-effective environmental protection and pollution prevention. This includes adopting a proactive

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**a note from
 the Manager...**
**DOE Technical
 Standards
 Program**

Technical Standards and the Necessary and Sufficient Process

The necessary and sufficient (N&S) process will be used to identify the set of environment, safety, and health standards

required for a site, facility, activity, or task, based on the associated missions and hazards for that site, facility, activity, or task. Teams of subject matter experts (SMEs) will be assembled to develop the N&S set, and to establish the levels of approval and detail for documentation. In many instances, technical standards will be included as part of the N&S set providing the specific means for how particular requirements will be met.

The Technical Standards Program (TSP) will support the N&S process in a number of ways:

(1) TSP Technical Standards Managers (TSMs) can provide assistance to management in identifying SMEs to serve on the N&S SME teams (most TSMs have already identified SMEs for most functional areas as part of the technical standards review process);

(2) the TSP Office (TSPO) can assist TSMs and SMEs in identifying relevant existing non-Government technical standards (e.g., providing lists) that can be used to meet particular requirements (this supports the graded approach);

(3) the TSMs and TSPO, through the TSP Procedures, provide processes for the SMEs and line organizations to use to modify existing Government and non-Government technical standards to suit line needs and develop new technical standards through the TSP standards development process, or through national or international standards groups (such as the American National Standards Institute or International Organization for Standardization).

(4) the TSMs and TSPO can assist SMEs and line organizations in screening the need for development or application of technical standards as part of an N&S set;

(5) the TSP provides a Department of Energy (DOE)-wide structured approach for developing technical standards, limited standards, specifications, and handbooks that can be used to support the N&S set and related implementation plans; and

(6) the TSPO provides an established and effective forum for the identification, discussion, and resolution of technical standards issues that may stem from the N&S process through the DOE-wide Technical Standards Managers' Committee (TSMC).

With the expected approval of the N&S process in 1996, line managers involved in the N&S processes should be aware of the services and resources in the TSP. TSMs should be proactive in becoming familiar with N&S activities and assisting line efforts. Be sure to attend the TSMC meeting in St. Louis in November and provide your views on how we can assist the N&S process.

--- Rick Serbu

DOE: Taking the Lead on Environmental Management Systems (Continued from page 1)

stance on environmental compliance, setting goals and targets for pollution prevention, and providing a framework for other DOE initiatives. These can range from requirements identified in Necessary and Sufficient analyses to adopting industry standards such as the Chemical Manufacturer's Association Responsible Care® Codes. This integrated approach mirrors management practices of DOE's best industry counterparts -- a Department Strategic Goal.

DOE is undergoing many changes that can benefit from using ISO 14001 or a similar EMS approach. First, an integrated approach to environmental management issues (such as the approach outlined in ISO 14001) is specifically designed to be proactive, reduce gaps and overlaps, and clearly define roles and responsibilities on a site-wide basis. By reducing redundant and reactive efforts, an EMS can also reduce overhead expenses. This allows focusing scarce resources on mission priorities. An EMS also uses performance indicators to clarify priorities and chart progress toward achieving them. On a broader level, an EMS can support attaining public trust and confidence -- another DOE Strategic Goal. With changing missions and declining budgets, being able to demonstrate continuing

commitment to environmental protection is essential. By adopting ISO 14001, DOE sites can get out of the "trust us" business and show regulators and stakeholders that they are continuously improving their environmental management practices while cutting costs. DOE has fought hard for increased public trust and confidence. Adopting an internationally recognized standard is a good way to keep and extend it.

Finally, ISO 14001 is an opportunity for DOE to show leadership across the Federal complex. Although Order 450 does not require a specific standard, DOE is leading Federal agencies in implementing an EMS approach at its sites. This allows the Department to demonstrate environmental leadership while meeting its strategic goals of attaining public trust and confidence and mirroring the management practices of its best industry counterparts.

For more information on Order 450, contact Larry Stirling (EH-41) at 202-586-2417. For information on the ISO standards, contact Jean Shorett (PNL) at 202-646-7809. For information on performance indicators related to environmental management, contact Steven Woodbury (EH-41) at 202-586-4371 or Richard Day (EH-33) at 301-903-8371.

TSMC Highlights

The Department of Energy (DOE) Technical Standards Managers' Committee (TSMC) met on June 6-7, 1995, in Washington D.C. The meeting provided a forum for Technical Standards Managers (TSMs) from DOE organizations (Headquarters and field), management and operating contractors, and laboratories to discuss issues important to the Technical Standards Program (TSP). The meeting featured both open discussion sessions and five break-out sessions. Approximately 40 TSMs and designated alternates participated in the meeting.

Highlights from the meeting are provided below.

1. Program Direction - Rick Serbu opened the meeting by discussing the challenges facing the TSP as a result of the DOE restructuring and downsizing efforts expected over the next several years. Because of reductions in staffing and funding, efficient and effective ways of doing business, such as the "Necessary and Sufficient" standards process being developed through the Department Standards Committee (DSC), are essential. All standards and standards activities, including those of the TSP, must provide value. Also, stakeholders will play an important part in identifying requirements that are pertinent to conducting the Department's missions.

Serbu stated that the primary purpose of the program and the focus of this meeting was to promote the use of non-Government standards (NGS) - development of new (DOE) standards is secondary. In addition, the meeting would serve to focus efforts on improving the Technical Standards Managers' knowledge of their responsibilities so that they could be more efficient and effective in their position. Serbu also emphasized that planning is the critical activity for establishing a sound strategic direction and effective implementation approaches for the TSP.

2. DSC Interface - Discussions focused on the recent activities of the DSC and how the TSMC should interface with and support the work of the DSC. Action items were assigned within the TSMC for determining the "value" of standards and assessing whether the committee could perform a screening function for the DSC to eliminate unnecessary standards. Additional information was received on use of the Necessary and Sufficient standards process being developed by the DSC, including site implementation strategies. It was agreed that the TSP (through the TSMC) can provide valuable technical support to the DSC; TSMs who currently participate in DSC activities through the Standards Process Actions Teams will pursue this matter with the DSC.

3. TSP Policy Statement - The proposed policy statement for the TSP and the EH-31 rationale for using a policy statement and supporting an implementation guide instead of an order (i.e., DOE 1300.2A/280) was discussed. Strong sentiment was expressed by many participants to keep the order in place until the use of DOE "policy"

documents (based on the DOE Directives hierarchy) was better understood and accepted by Department and contractor employees. Serbu agreed to evaluate several options for documenting the Department's standards policy.

4. Revision to Technical Standards Program Procedures (TSPPs) - Changes to the TSPPs based on experience with their use over the past 12-18 months were discussed with the participants. A revised set of TSPPs will be developed and distributed to the TSMs.

5. Working Sessions - Break-out sessions were conducted to review and discuss program implementation issues. The session topics and resultant discussions were the following:

- *Strategic Planning* - The existing TSP Strategic Plan was reviewed. Participants provided input on possible changes and new topics for consideration that reflect evolving Department missions and priorities. The input will be considered for incorporation in the Strategic Plan.
- *Costs of DOE Technical Standards* - The objective of this session was to obtain stakeholder input for establishing a representative dollar value associated with the development and issuance of a DOE technical standard. Estimates for producing a DOE technical standard of nominal size ranged from \$70K to \$275K. This served to emphasize the monetary benefit to DOE of adopting for use, where possible, existing standards (voluntary, Federal, or Departmental).
- *Electronic Access to Standards Information* - User experience with the existing TSP information under the "Technical Standards" Home Page on the Office of Scientific and Technical Information (OSTI) World Wide Web server was discussed with a goal of making the information more accessible. Issues included system interconnectability, security, hardware/software, "read-only" versus ASCII files for downloading, electronic access to draft DOE technical standards, and providing a "Comments" area under the Technical Standards Home Page. The need to reduce program printing and distribution costs and provide better access to program information makes this a high-priority topic for continuing discussion.
- *TSM Functions and Management Systems* - Roles, responsibilities, and expectations of TSMs were reviewed. In addition, site-specific methods employed by TSMs for accomplishing their work were discussed. General agreement existed that a clearly documented and well understood statement of purpose (such as the need for the program as discussed in DOE 1300.2A) was the key element in obtaining site management support for the TSM position.

The next meeting of the TSMC will be held on November 7-8, 1995, in St. Louis, Missouri. If you are a TSM or designated alternate, your participation is desired because you have information that is critical to making the Technical Standards Program a more valuable asset to the Department. We hope to see all of you in St. Louis!

INMM Activities

The Institute of Nuclear Materials Management (INMM) is an international, professional, and technical organization that functions as the Secretariat for two ANSI Accredited Standards Committees, N14 - *Packaging and Transportation of Radioactive and Non-nuclear Hazardous Materials* and N15 - *Methods of Nuclear Material Control*. The N14 Committee scope statement is the following: "Standards for the packaging and transportation of fissile and radioactive materials, non-nuclear hazardous materials, including waste and mixed materials but not including movement or handling during processing and manufacturing operations." The N15 Committee scope statement is: "Standards for protection, control, and accounting of special nuclear materials in all phases of the nuclear fuel cycle, including analytical procedures where necessary and special to this purpose, except that physical detection of special nuclear materials within a nuclear power plant is not included."

The N14 Committee has six published and current technical standards and another five technical standards under development that provide guidance on safe and effective packaging and transportation methods. Several DOE activities are under way that are of interest to the N14 Committee, including (1) a transportation needs assessment listing the quantities and flows of materials that DOE will need to ship in the near future and (2) an options study to help define how DOE should proceed into the next century. The needs assessment will define requirements in approximately 12 topical areas, including packaging and associated systems to support the shipments.

The N14 Committee will be holding their annual meeting in December in Las Vegas at the international conference on Packaging and Transportation of Radioactive Materials, better known as PATRAM. This is the only conference dedicated to this subject and is acknowledged throughout the international community as a "must" to attend.

The N15 Committee currently maintains 10 technical standards, that provide guidance to facilities and oversight organizations for the development of those critical procedures that are required if a facility is to have an effective safeguards and security system. A collaborative effort is being pursued with DOE and the Nuclear Regulatory Commission (NRC) to focus the N15 standards in those areas where regulatory guidance is outdated or nonexistent. Matching the standards development effort to identified needs will increase DOE and NRC support for the standards development effort and promote inclusion of the standards in the regulations by reference.

For more information, contact Mimi Welch at the Oak Ridge National Laboratory, 615-574-5068 or welchmj@ornl.gov.

NIST and ANSI Sign Agreement To Strengthen U.S. Competitiveness Through Voluntary Standards System

A recent news release from NIST and ANSI included the following noteworthy information.



GAITHERSBURG, MD., July 24, 1995 - In an effort to support U.S. competitiveness, economic growth, health, safety, and the protection of the environment, the Commerce Department's National Institute of Standards and Technology (NIST) and the American National Standards Institute (ANSI) have signed a memorandum of understanding (MOU) to enhance and strengthen the national voluntary standards system.

The agreement was signed by NIST Director Dr. Arati Prabhakar and ANSI President Sergio Mazza.

The MOU cites the need for better communication within and between the private sector and the federal government to ensure the timely flow of information and the need for improved liaison to facilitate decision-making and implement actions on standards at the national and international levels. According to both ANSI and NIST, it is critical that affected U.S. regulatory agencies have the opportunity to contribute to the development and implementation of national and international voluntary standards.

NIST and ANSI agree jointly that ANSI is the recognized U.S. member body to the International Organization for Standardization (ISO) and, through the U.S. National Committee, to the International Electrotechnical Commission (IEC). ANSI also is the U.S. member body to the Pacific Area Standards Congress (PASC) and to the Pan American Standards Commission (COPANT). As the U.S. representative to these bodies, ANSI convenes delegations and appoints technical groups of a broad spectrum of experts from the United States in all deliberations of relevant boards, individual technical committees, and working groups.

NIST's role, as delegated by the Secretary of Commerce under OMB Circular A-119 and the Trade Agreement Act of 1979, is to coordinate federal activities in voluntary standards. NIST coordinates standards activities with responsible Government agencies to ensure that they are aware of private voluntary activities and that the private sector is cognizant of regulatory agency responsibilities.

(News Briefs Continued on page 6)



Standards *Actions*

DOE Technical Standards Recently Sent for Coordination

During the coordination process, the appropriate Technical Standards Managers will provide selected reviewers with copies for comment. If you wish to comment on a particular document, please notify your Technical Standards Manager. DOE documents currently in coordination are given below.

- *Requesting and Granting Exemptions to DOE Orders, Notices, Manuals, and Immediate Action Directives*, MISC-0029, (Mary Haughey, EH-31, 301-903-2867); comments due September 1, 1995.
- *Accident Analysis for Aircraft Crash into Hazard Facilities*, SAFT-0030, (Kamair Jamali, DP-31); call in questions at 301-903-7167, send comments electronically to kamiar.jamali@bp.doe.gov; comments due October 6, 1995.

Documents Recently Published

The following DOE documents have recently been published:

- DOE-TSL-1-95, *Department of Energy Standards Index*, August 1995.
- DOE-TSL-4-95, *Directory of DOE and Contractor Personnel Involved in Non-Government Standards Activities*, August 1995.

DOE employees and DOE contractors may obtain copies from the DOE Office of Scientific and Technical Information, P.O. Box 62, Oak Ridge, Tennessee 37831; telephone 615-576-8401 or FAX 615-576-2865.

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.

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.

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:

- ASTM D5761, *Practice for the Emulsification/Suspension of Multi-phase Fluid Waste Materials* (new standard); comments due October 17, 1995.
- ASTM D5762, *Test Method for Nitrogen in Petroleum and Petroleum Products by Boat-Inlet* (new standard); comments due October 17, 1995.

Technical Standards Program			
Document Status as of 8/31/95			
In Conversion	In Preparation	Out for Comment	Published in Past 30 Days
21	74	21	2
Total in process = 115			

Standards Actions (Continued from page 7)

- ISA-dS84.01, *Application of Safety Instrumented Systems for the Process Industries – Draft 7* (new standard); comments due October 17, 1995.
- ISA-S50.02 Part 3, *Fieldbus Standard for Use in Industrial Control Systems, Part 3: Data Link Service Definition* (new standard); comments due October 17, 1995.
- ISO/ASQC Q10007, *Quality Management – Guidelines for Configuration Management* (new standard); comments due October 17, 1995.
- ISO/ASQC Q9000-2, *Quality Management & Quality Assurance Standards - Part 2: Generic Guidelines for the Application of ISO 9001, 9002 and ISO 9003* (new standard); comments due October 3, 1995.
- ISO/ASQC Q9000-3, *Quality Management & Quality Assurance Standards Part 3: Guidelines for the Application of ISO 9001 to the Development, Supply & Maintenance of Software* (new standard); comments due October 3, 1995.
- ISO/ASQC Q9004-2, *Quality Management and Quality System Elements - Part 2: Guidelines for Services* (new standard); comments due October 3, 1995.
- ISO/ASQC Q9004-3, *Quality Management and Quality System Elements - Part 3: Guidelines for Processed Materials* (new standard); comments due October 3, 1995.
- ISO/ASQC Q9004-4, *Quality Management and Quality System Elements - Part 4: Guidelines for Quality Improvement* (new standard); comments due October 3, 1995.
- ISO/ASQC Q10013, *Guidelines for Quality Manuals* (new standard); comments due October 3, 1995.
- T1.319, *Fire Propagation Hazard Testing Procedures for Equipment* (new standard); comments due October 17, 1995.
- UL 10A, *Standard for Safety for Tin-Clad Fire Doors* (new standard); comments due October 3, 1995.
- UL 873, *Standard for Safety for Temperature-Indicating and Regulating Equipment* (revision of ANSI/UL 873-1987); comments due October 17, 1995.

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

- ANSI/ASME A39.1-1995, *Safety Requirements for Window-Cleaning*.
- ANSI/ASME B56.1a-1995, *Safety Standard for Low Lift and High Lift Trucks*.
- ANSI/ASME CSD-1-1995, *Controls and Safety Devices for Automatically Fired Boilers* (includes revision service).
- ANSI/ASME HPS-1994, *High Pressure Systems*.
- ANSI/ASME MFC-14M-1995, *Measurement of Fluid Flow Using Small Bore Precision Orifice Meters*.

- ANSI/NFPA 16-1995, *Installation of Deluge Foam-Water Sprinkler and Spray Systems*.
- ANSI/NFPA 101A-1995, *Guide on Alternative Approaches to Life Safety*.
- ANSI/NSF 61-1995, *Drinking Water System Components - Health Effects*.

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

- 31J/39/FDIS, Draft IEC 79-10: *Electrical apparatus for explosive gas atmospheres –Part 10: Classification of hazardous areas* – September 15, 1995.
- 34A/591/FDIS, *Amendment 8 to IEC 662: High-pressure sodium vapour lamps* – September 15, 1995.
- 64/769/FDIS, *Draft Amendment 2/IEC 364-3: Electrical installations of buildings - Part 3: Assessment of general characteristics* - September 1, 1995.
- 89/132/FDIS, *Amendment 1 to IEC 695-4: Terminology concerning fire tests* – September 15, 1995.
- ISO/DIS 10817-1, *Rotating shaft vibration measurement systems - Part 1: Relative and absolute signal sensing of radial vibration from rotating shafts* - November 20, 1995.
- ISO/DIS 10708, *Water quality - Evaluation in an aqueous medium of the "ultimate" aerobic biodegradability of organic compounds - Method by determining the biochemical oxygen demand (two-phase closed bottle test)* - November 20, 1995.
- prEN 207 REVIEW, *Personal eye-protection – Filters and eye protection against laser radiation* – November 25, 1995.
- prEN 237, *Liquid petroleum products – Petrol – Determination of low lead concentrations by atomic absorption spectrometry (for information)*.
- prEN 1934, *Masonry – Measurement of thermal resistance – Hot box method using heat flow meter* – November 23, 1995.
- prEN ISO 3104, *Petroleum products - Transparent and opaque liquids - Determination of kinematic viscosity and calculation of dynamic viscosity (ISO 3104: 1994)* - October 30, 1995.
- prEN ISO 9241-11, *Ergonomic requirements for office work with visual display terminals (VDTs) – Part 11: Guidance on usability (ISO/DIS 9241-11: 1995)* – December 6, 1995.
- prENV ISO 10303-1, *Industrial automation systems and integration - Product data representation and exchange - Part 1: Overview and fundamental principles (ISO 10303-1: 1994)* (for information).

(Continued on page 9)

Standards Actions (Continued from page 8)

- prEN ISO 11114-3, *Transportable gas cylinders – Compatibility of cylinder and valve materials with gas contents – Part 3: Test methods (ISO/DIS 11114-3:1995)* – October 25, 1995.

The following newly published international standards are available from ANSI:

- IEC 626-1: 1995, *Combined flexible materials for electrical insulation — Part 1: Definition and general requirements.*
- IEC 672-1: 1995, *Ceramic and glass insulating materials — Part 1: Definitions and classification.*
- IEC 1010-1: 1990/Amendment 2:1995, *Safety requirements for electrical equipment for measurement, control, and laboratory use — Part 1: General requirements.*
- IEC 1076-1: 1995, *Connectors with assessed quality, for use in d.c., low frequency analogue and in digital high speed data applications — Part 1: Generic specification.*
- IEC 1297: 1995, *Industrial-process control systems – Classification of adaptive controllers for the purpose of evaluation.*
- IEC 1423-2: 1995, *Heating cables for industrial applications — Part 2: Constructional and material requirements.*
- IEC 1727: 1995, *Photovoltaic (PV) systems - Characteristics of the utility interface.*
- ISO 1010-1: 1990/Amendment 2:1995, *Safety requirements for electrical equipment for measurement, control, and laboratory use — Part 1: General requirements.*
- ISO 7507-4: 1995, *Petroleum and liquid petroleum products — Calibration of vertical cylindrical tanks — Part 4: Internal electro-optical distance-ranging method.*
- ISO 10312: 1995, *Ambient air — Determination of asbestos fibres — Direct-transfer transmission electron microscopy method.*
- ISO 10551: 1995, *Ergonomics of the thermal environment — Assessment of the influence of the thermal environment using subjective judgement scales.*
- ISO 11697: 1995, *Bases for design of structures — Loads due to bulk materials.*
- ISO 12183: 1995, *Controlled-potential coulometric assay of plutonium.*

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, 1916 Race Street, Philadelphia, Pennsylvania 19103. For information regarding ASTM membership, contact the Membership Services Department at 215-299-5454. ASTM publications may be ordered from

the ASTM Customer Services Department at 215-299-5585 (FAX 212-977-9679). 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 215-299-5572. 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 newly published standards are available from ASTM:

- C 1289-95, *Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board* (new standard).
- C 1290-95, *Specification for Flexible Fibrous Glass Blanket Insulation Used to Externally Insulate HVAC Ducts* (new standard).
- D 5652-95, *Test Methods for Bolted Connections in Wood and Wood-Base Products* (new standard).
- D 5665-95, *Specification for Thermoplastic Fabrics Used in Cold-Applied Roofing and Waterproofing* (new standard).
- D 5708-95, *Test Methods for the Determination of Nickel, Vanadium and Iron in Crude Oils and Residual Fuels by Inductively-Coupled Plasma (ICP) Atomic Emission Spectrometry* (new standard).
- E 1643-94, *Practices for Installation of Water Vapor Retarders Used in Contact with Earth or Granular Fill Under Concrete Slabs* (new standard).
- E 1681-95, *Test Method for Determining a Threshold Stress Intensity Factor for Environment-Assisted Cracking of Metallic Materials Under Constant Load* (new standard).

American National Standard 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.

Air Movement And Control Association, Inc.

Office: 30 West University Drive
Arlington Heights, IL 60004-1893
Contact: Joseph Brooks

- BSR/AMCA 240, *Laboratory Methods of Testing Positive Pressure Ventilators for Rating* (new standard).

Standards Actions (Continued from page 9)

IEEE

Office: 445 Hoes Lane, P. O. Box 1331
Piscataway, NJ 08855-1331
Contact: Luigi Napoli

- BSR/IEEE 1416, *Recommended Practice for the Interface of New Gas Insulated Equipment in Existing Gas Insulated Substations* (new standard).
- BSR/IEEE 1427, *Guide for Recommended Electrical Clearances and Insulation Levels in Air Insulated Electrical Power Substations* (new standard).
- BSR/IEEE 1433, *A Standard Glossary of Power Quality Terminology* (new standard).

National Fluid Power Association

Office: 3333 N. Mayfair Road
Milwaukee, WI 53222-3219
Contact: Shirley Seal

- BSR/(NFPA) T3.9.17 R2, *Hydraulic Fluid power - Positive Displacement Pumps, Motors and Integral Transmissions - Method of Testing and Presenting Basic Performance Data* (revision).

Underwriters Laboratories, Inc.

Office: 1285 Walt Whitman Road
Melville, NY 11747-3081
Contact: Patricia Tymus

- UL 1994, *Standard for Safety for Low Level Path Marking and Lighting Systems* (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), 301-903-2856. Questions or comments may also be referred to Don Spellman, 615-574-7891, c/o Performance Assurance Project Office, Oak Ridge National Laboratory, P.O. Box 2009, Oak Ridge, Tennessee 37831-8065. 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 615-574-0396.

Question: Are the "adopted" non-Government standards (NGS) listed in Appendix B of TSL-1 *mandatory* standards when used in DOE projects?

Answer: No. The term "adoption" relates only to the Technical Standards Program and was established for the purpose of reporting in accordance with OMB Circular A-119. When the process was set up in 1992, there was an agreement that NGSs referenced in DOE Orders (whether mandatory or discretionary) would be considered to be "adopted" NGSs. Designating a particular NGS as mandatory for a DOE contractor is a contractual decision. That is, the mandatory designation is either imposed through a DOE Order or the M&O contract, or the contractor commits to the NGS in their safety analysis report or implementation plan and DOE accepts it.

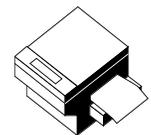
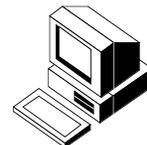
Question: If I find a copy of a DOE technical standard on an Internet server other than the Technical Standards home page on the OSTI server or on the local area network (LAN) at my site, can I use this document as the "official" copy for compliance purposes?

Answer: No. We have already had two instances of a Preparing Activity assuming that once they had their senior line manager approve the document, obtained a standard number from their headquarters technical standards manager, and mailed this document to the TSPO that it was an official copy and could be put on the EH LAN at head-

Answers to Frequently Asked Questions

quarters for use. Both of these documents, when checked by the TSPO, contained errors that required correction before the document could be printed. The copy on the EH LAN constituted an "unofficial" copy and could have caused someone to take incorrect actions. Similarly, if a printed DOE technical standard were put on one of the remote site LANs, it could be downloaded to a word processor, altered, and put back on the net to represent the original document. The Technical Standards Program Procedures (TSPPs) provide appropriate document control procedures to ensure

that when someone had a copy of a DOE technical standard, he or she would have an "official" copy. For instance, when you download a DOE technical standard from the OSTI server, you can only send the document to your printer, not to a word processor. The document is coded so that its form is not recognized by any current word processor. "Official" copies of DOE technical standards should only be obtained from either OSTI (order for hard copies or download a "print only" file from their server), NTIS, or a commercial standards information service, such as IHS. Photocopies may be made as necessary. Users of photocopies of DOE technical standards should check the latest edition of DOE-TSL-1 to ensure that it is the most recent revision.



DOE Technical Standards Managers (TSMs) - Recent Changes

ALO — Replacing Karen L. Boardman as TSM
Lynn E. Maestas (formerly Alternate TSM, same address and phone as before)

ARAO — Replacing Jon Neuhoff as TSM
John Houck
U.S. Department of Energy
Argonne Area Office
9800 South Cass Avenue
Argonne, IL 60439
708-252-2850, FAX: 708-252-2361
Email: joyn.houck@ch.doe.gov

BAO — Peter W. Kelley
New E-mail address: pkelley@bnl.gov

BNL — Replacing W. J. Brynda as TSM
Marvin Shear
Brookhaven National Laboratory
17 Cornell Avenue, Bldg 902B
Upton, NY 11973
516-282-7155, FAX: 516-282-7981

DP — Maurice Pitt
New E-mail address: maurice.pitt@dp.doe.gov

EH — Rex J. Bowser
New E-mail address: rex.bowser@hq.doe.gov

EH — Darrell Huff
New E-mail address: darrell.huff@HQ.doe.gov

EM — Brendan M. Burns
New street number: EM-23/Cloverleaf
New phone number: 301-903-7483

IIDO — Howard D. Cummings
New E-mail address: cumminhd@inel.gov

NVO — Mitchell P. Kunich:
New organization title: Operations Management Division
New E-mail address: kunich@et.nv.doe.gov

ORAU — New Alternate TSM
W. L. (Jack) Beck
Program Director, Environmental Survey and Site Assessment
Oak Ridge Institute for Science and Education
Energy/Environment Systems Division
P. O. Box 117
Oak Ridge, TN 37831-0117
615-576-5031, FAX: 615-241-3497
E-mail address: beckj@orau.gov

ORAU — Replacing Jay G. McDonald as TSM
Mayme R. Crowell
Assistant Program Director, TAPSHQA
Oak Ridge Institute for Science and Education
Energy/Environment Systems Division
P. O. Box 117
Oak Ridge, TN 37831-0117
615-576-3406, FAX: 615-576-6675

PIAO — Replacing Elizabeth Jordan as TSM
Sarah E. Harson
Environmental Compliance Engineer
U. S. Department of Energy
11400 Souther Belcher Road
P. O. Box 2900
Largo, FL 34649
813-545-6139, FAX: 813-541-8370

PPPL — John DeLooper
New E-mail address: jdelooper@pppl.gov

WSRC — Gregory L. Bell
New E-mail address: gregory02.bell@srs.gov

Note: A complete, updated listing of DOE TSMs will be published in the June 1996 edition of *The Standards Forum* and is now available on Internet.

We need your help in promoting the use of the "Information Superhighway" by participants in the Technical Standards Program. If you have not already done so, please send your Email address to Marty Marchbanks, 615-241-3658 or marchbanksmf@ornl.gov.

A Tribute to Don Summers

The Technical Standards Program has lost a friend and ally. Don Summers, a quality assurance group leader at the Los Alamos National Laboratory, died on May 6, 1995, as a result of injuries sustained in an off-site accident. Don had been actively involved with standards development and application issues within DOE through his work supporting the New Production Reactor Program and, more recently, the efforts of his staff supporting the EH Policy/Standards Process Improvement Team and the Department Standards Committee. His career in the quality field spanned more than 30 years. Don understood and appreciated the role and value of standards in the work place. He will be missed.

Upcoming Meetings

October 11, 1995

U.S. World Standards Day

Crystal City Marriott Hotel,
Washington, D.C.

Theme: *Global Information
Highway--A Matter of Standards*

The U.S. celebration of World Standards Day is an annual event. The sponsorship of World Standards Day, which includes DOE, is made up of more than 50 private- and public-sector organizations. The committee planning the activities is cochaired by the American National Standards Institute and the National Institute of Standards and Technology (NIST). The dinner program will feature a keynote address by William Hudson of AMP Inc, and an awards ceremony. The dinner and reception will include exhibits by standards developers, trade associations, government agencies, and other organizations. Attendance is by invitation. For more information, contact Patrick Cooke, NIST, 301-975-4033; FAX 301-963-2871.

October 11-13, 1995

1994 Standards Engineering Society Annual Conference

Stouffer Renaissance Hotel, Arlington, Virginia

Theme: *Re-Engineering Standardization - A Strategy for
Global Competitiveness*

For more information, contact Don Snyder, Underwriters Laboratories, 12 Laboratory Drive, P.O. Box 13995, Research Triangle Park, North Carolina 27709-3995, 919-549-1850.

October 24-26, 1995

19th Annual TRADE Conference

Palmer House Hilton Hotel, Chicago, Illinois

Theme: *Success Through Training: TRADE Now or Pay
Later!*

This annual conference offers the opportunity for DOE and DOE contractor employees to share their expertise, resources, and lessons learned with others in the TRADE network. General and concurrent sessions on a variety of topics will be held on October 24-25; TRADE Special Interest Groups and ad hoc groups will meet on October 26. Displays of computer resources, documents, products, and other information materials will be featured. For more information, contact Denise Hawkins at 615-576-3316 or hawkinsd@ora.gov.



October 24-26, 1995

Institute of Electrical and Electronics Engineers (IEEE) Nuclear Science Symposium

Airport Hyatt Regency Hotel,
San Francisco, California

Theme: *Nuclear Power
Systems*

For more information, contact Jay Forster, 408-370-4202.

October 29-November 2, 1995

1995 American Nuclear Society Annual Meeting

San Francisco Hilton, San Francisco, California

Theme: *Meeting the Competition Through Innovation, Cost
Effectiveness, and Technical Excellence*

For more information, contact General Chair John Taylor, Electric Power Research Institute, 3412 Hillview Ave., N.W., Palo Alto, California 94304, 415-855-2030, or the ANS Meetings Department, 555 N. Kensington Ave., La Grange Park, Illinois 60526, 708-579-8258.

November 13-17, 1995

Department of Energy Environment, Safety, and Health Conference

Denver Marriott Southeast, Denver, Colorado

Theme: *Line Managers - A Vital Link in Environment,
Safety and Health*

Secretary of Energy Hazel R. O'Leary will be the keynote speaker for this year's conference. Plenary highlights include panels of Cognizant Secretarial Officers, industry representatives, workers, external regulation and internal oversight representatives, and field office and contractor personnel. Breakout sessions, exhibits, demonstrations, and preconference activities will explore best practices, lessons learned, and worker involvement strategies. For more information, contact Susan Samuels, Conference Coordinator, at 301-903-3294.

December 3-8, 1995

PATRAM '95 - Packaging and Transportation of Radio- active Materials

The Mirage Hotel, Las Vegas, Nevada

The ANSI Accredited Standards Committee, N14 - *Packaging and Transportation of Radioactive and Non-nuclear Hazardous Materials*, will hold its annual meeting in conjunction with PATRAM, on Sunday, December 3, from 3:00 pm to 6:00 pm.

(Continued on page 14)

Upcoming Meetings (Continued from page 13)

PATRAM brings together international experts from industry, government, and academia in the areas of transportation technology, operations, and regulations. It is an open, international forum fostering excellence among those involved in the packaging and transportation of radioactive materials.

April 10-12, 1996

The DOE Technical Standards Program - 1996 WORKSHOP

Adam's Mark Hotel, St. Louis, Missouri

Theme: *The Strategic Standardization Initiative - A Technology Exchange and Global Competitiveness Challenge for DOE*

The theme for this workshop is "The Strategic Standardization Initiative - A Technology Exchange and Global Competitiveness Challenge for DOE." The workshop goal is to inform the DOE technical standards community of strategic standardization activities taking place in the Department, other Government agencies, standards development organizations, and industry. We will challenge individuals working on technical standards to participate in improving cooperation and communication with the involved organizations in response to the initiative.

Workshop sessions will include presentations by representatives from various Government agencies in several areas: the coordination among and participation of Government personnel in the voluntary standards process; reports by standards organizations, industry, and DOE representatives on current technology exchange programs; and how the road ahead appears for "information superhighway" standardization. There will also be a session showcasing successful standardization case studies selected from several sites across the DOE complex. The workshop will climax with a panel discussion of the goals and objectives of the DOE Technical Standards Program as envisioned by senior DOE management.

The hotel is in downtown St. Louis directly across from the Gateway Arch, the waterfront shops, and the various riverboat attractions along the Mississippi River. Please contact Becky Harrell, Workshop Administrator, at 615-574-0396, for further details or registration information.

1995 TSP WORKSHOP POSTPONED

The DOE Technical Standards Program workshop originally scheduled for October 4-6, 1995, has been postponed due to the uncertainty associated with the FY 1996 congressional appropriations for the Federal Government and the potential impact on workshop participation by Department employees.

The new dates for the workshop are April 10-12, 1996, again at the Adam's Mark Hotel in St. Louis, Missouri.

Since the interest in the objectives of the original workshop has been so strong, we intend to continue with the theme "Strategic Standardization - A Technology Exchange and Global Competitiveness Challenge for DOE". The speakers that were scheduled for October understand the situation and are working with us to maintain their participation in the workshop sessions.

We regret any inconvenience that the postponement may cause, but the benefits of a well attended, interactive workshop for both the participants and the Technical Standards Program are compelling arguments to justify postponement in light of the uncertain budget situation. All registration fees that have been collected to date will be returned. Further details on the April 1996 workshop will be published in upcoming issues of *The Standards Forum*. Please contact Becky Harrell, the workshop administrator, at 615-574-0396 if you have any questions.

The Technical Standards Managers' Committee (TSMC) meeting that was scheduled for October 3-4, 1995 (in conjunction with the workshop) has been rescheduled to November 7-8, 1995. The meeting will still be held at the Adam's Mark Hotel in St. Louis. A detailed agenda will be published prior to the meeting to enable the Technical Standards Managers (TSMs) to prepare as necessary. Each TSM should make every effort to attend as there are several important issues that must be covered at this meeting. The TSMC meeting provides the opportunity for improving communications and furthering Technical Standards Program goals. Call Marty Marchbanks, the TSMC Secretary, at 615-241-3658 for any comments or questions on the meeting, or items you want to include on the agenda.

The
Standards

Forum

Published By

Editor Don Spellman

Assistant Editor Marty Marchbanks

Oak Ridge National Laboratory (ORNL) publishes *The Standards Forum* quarterly for the DOE Technical Standards Program. Questions or comments may be referred to Rick Serbu, EH-31, 301-903-2856. If you have any comments on *The Standards Forum* or on DOE standards projects, please call Don Spellman, ORNL, 615-574-7891.

If you would like to have your name added to (or removed from) the mailing list for this publication, or need to make an address change, please notify Beck Harrell, ORNL, 615-574-0396 (FAX: 615-574-0396; Email: harrellre@ornl.gov).

The Standards

Forum

FAX to: 615-574-0382 Marty Marchbanks

FROM: Name: _____

Employer: _____

Street: _____

City, State: _____

USER SURVEY FORM

The goal of *The Standards Forum* is to provide relevant and timely communications to all personnel involved in DOE Technical Standards Program activities. You can help us achieve this goal by completing this survey and faxing it to

the above number. Thank you in advance for helping us keep you informed of current activities and emerging issues relevant to the development and use of standards within the DOE community.

Which of the following best describes your job? Check all that apply.

- | | | |
|---|---|---|
| <input type="checkbox"/> administration | <input type="checkbox"/> occupational safety | <input type="checkbox"/> site remediation |
| <input type="checkbox"/> construction | <input type="checkbox"/> operations | <input type="checkbox"/> standards compliance |
| <input type="checkbox"/> emergency response | <input type="checkbox"/> program analysis | <input type="checkbox"/> standards review |
| <input type="checkbox"/> engineering | <input type="checkbox"/> quality assurance | <input type="checkbox"/> standards writing |
| <input type="checkbox"/> environmental protection | <input type="checkbox"/> quality control | <input type="checkbox"/> technical support |
| <input type="checkbox"/> health physics | <input type="checkbox"/> radiation protection | <input type="checkbox"/> training |
| <input type="checkbox"/> industrial hygiene | <input type="checkbox"/> research & development | <input type="checkbox"/> waste management |
| <input type="checkbox"/> equipment maintenance | <input type="checkbox"/> security | <input type="checkbox"/> other _____ |

Which of the following best describes your position? (Check one)

- | | | |
|--|------------------------------------|--------------------------------------|
| <input type="checkbox"/> program manager | <input type="checkbox"/> scientist | <input type="checkbox"/> technician |
| <input type="checkbox"/> line supervisor | <input type="checkbox"/> engineer | <input type="checkbox"/> other _____ |

With whom do you share your copy of *The Standards Forum*? Please indicate how many in each category read it.

- | | | |
|--|------------------------------------|--------------------------------------|
| <input type="checkbox"/> program manager | <input type="checkbox"/> scientist | <input type="checkbox"/> technician |
| <input type="checkbox"/> line supervisor | <input type="checkbox"/> engineer | <input type="checkbox"/> other _____ |

What standards organizations are you active in?

- ASME ASTM IEEE ANS NFPA Others _____

What do you like about *The Standards Forum*?

How could *The Standards Forum* be improved to meet your needs?

Any other comments? (Use other sheets if necessary.)

