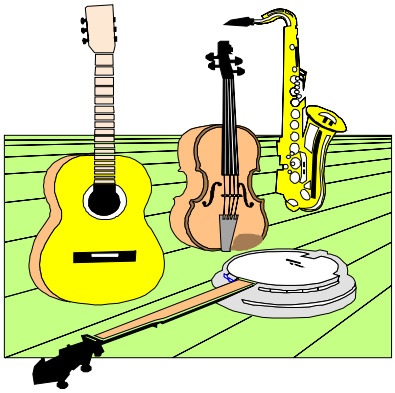
The
Standards Forum

News on the DOE Technical Standards Program

Volume 7– Number 1 – June 1999

Nashville Hosts TSMC 99-5



The DOE Technical Standards Managers' Committee (TSMC) met on May 11-12, 1999 at the Renaissance Nashville Hotel in Nashville, Tennessee. Approximately 30 Technical Standards Managers (TSMs), designated alternates, and other representatives were present.

Rick Serbu led a program overview of the meeting featuring reports on various activities from several Technical Standards Program (TSP) participants. Rick gave an update on the status of the draft TSP Order and Guide (DOE O 252.1, *Technical Standards Program* and DOE G 252.1-1, *Technical Standards Program Guide*) and the Directives System Coordination Report. Rhonda Toms (ES&H Technical Information Services) reviewed the changes made to the TSP Internet site and provided a new URL for the site. A printout of the currently active TSMC action items and the results of the site library survey were provided by Marty Marchbanks. Norm Schwartz reported on Topical Committee (TC) developments. Plans for the CY 2000 Federal Technical Standards Workshop were discussed by Don Williams. Marsha Poland McGinnis reported on the status of the TSP publications (DOE-TSL-1, DOE-TSL-4, and DOE-TSPP-9). Jeanette Helfrich of the Office of General Council provided a legal update on acquisition regulations and safety requirements. A presentation of Sandia National Laboratory's Standards Tracking Database was given by Bob Wayland.

Jeff Feit offered an abbreviated version of the TSP tutorial to new program participants to provide them an opportunity to gain a better understanding of the TSP and how they can contribute to its success.

The majority of the meeting concentrated on a series of three working sessions selected by the attendees. Don Williams led the first session, "The TSP Order and Guide and the Directives System." The second session, "The Next Steps for Improvement in the TSP Home Page," was led by Rhonda Toms. Dennis

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DOE/ISM Feedback and Improvement Workshop

By: Phil Levine, Westinghouse Savannah River Corporation, and Mosi Dayani, U.S. Department of Energy, Savannah River Office

During the past fifteen months, a number of communications and initiatives have established efforts throughout the Department of Energy to strengthen the use of feedback and improvement mechanisms as an integral part of Integrated Safety Management (ISM). To reinforce the value and benefits being gained from these efforts by sharing experiences and information, the Savannah River Site and the Safety Management Implementation Team are sponsoring a focused workshop on Feedback and Improvement. This Workshop will be held on July 20-21, 1999, in the Westin Peachtree Plaza Hotel, Atlanta, Georgia. DOE and contractor personnel who are responsible for and implement feedback and improvement mechanisms are invited to attend and participate in the Workshop. Successful completion of this Workshop will satisfy one of the Department's commitments to accelerate Policy 450.5 implementation, and is intended to answer the question, "What is the Department's framework for feedback and improvement?"

Presentations and breakout sessions will focus on: contractor assessment, including self-assessment, independent assessment, management assessment, and program evaluations; DOE Field Office assessment, including self-assessment, independent assessment within DOE, and oversight of contractor; Recommendation 98-1 initiatives and activities; lessons learned; performance measurement; and, corrective action. In addition, sessions are planned to address feedback and improvement methods used in Safeguards and Security by the protective force and operating contractors; INPO best practices/methods; management of Employee Concerns by DOE and contractors; and, total Life Cycle implementation of feedback and improvement. Arrangements are also being made to accommodate exhibits and demonstrations of feedback mechanisms, such as information technology advances and tools being used at the various sites.

A "DOE/ISM Feedback and Improvement Workshop" Internet Page will be available in the near future and may be accessed

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There are some significant changes in the Technical Standards Program (TSP), so I thought I'd summarize some of the key ones for our service users and our Technical Standards Managers (TSMs).

First, our TSP Home Page has moved from the OSTI server where it resided for several years to the ES&H Technical Information Services (TIS) server. The new URL is **http://tis.eh.doe.gov/techstds**, so change your bookmark! There is currently a "redirect" from the OSTI server, but it will only be there a short time. Over the next several months, we will be enhancing the current Home Page format to provide better services and information, but we'll try to keep it consistent with the current format so you don't have to relearn where your favorite information can be found. We will also be integrating with the new EH Portal, that will provide access to more information and probably incorporate "push" technology. This will allow you to select only the things that interest you for a customized display.

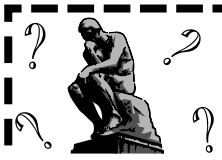
Next, we expect to get the new TSP Order (DOE O 252.1) and TSP Program Guide (DOE G-252.1-1) out in the very near future. The Order is very similar to that currently posted on Explorer as a draft, while the Guide has been reorganized in a "plain language" format that separates the original information into chapters providing background on the TSP, outlining the TSP infrastructure, and providing "how to" information that corresponds to our TSP Procedures. It also includes definitions and terms of use and notes their origins.

Further, we have an active effort with the Directives System staff to coordinate on resources, activities, and services where this gains us efficiency and effectiveness. So far, we have improved links between Directives and DOE technical standards documents by providing "hotlinks" and "go to" buttons and icons. This will continue, and we are also considering conducting parallel processing of Directives and their supporting technical standards and using the Directives System on-line comment resolution process. Closer coordination will continue in the face of dwindling resources and "Federalization."

We held a very successful TSM Committee (TSMC) meeting in Nashville in May, and hope we can at least hold an annual "face-to-face" meeting (we normally need three!) so we can conduct working sessions at these business meetings. In view of budget and travel cuts, the TSMC now "meets" on a monthly basis via telecon. If you have any organizational issues related to technical standards, get them to your TSM, and we can bring them up at the telecons.

Finally, there have been several recent cases where persons working on policy and program implementation needed to process Directives System or TSP documents, but were uncertain as to their course of action. If you are developing any kind of technical or management guidance or standard and you are uncertain as to how to proceed, contact your organizational TSM or Directives Manager, or me. We'll help set you on the right path - Directive or technical standard, and save you time, money and effort. You can find your TSM at the URL noted above.

— Rick Serbu



Answers to Frequently Asked Questions

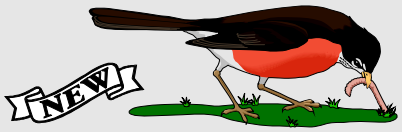
Question: What is the difference between a Reaffirmation Notice and a Change Notice?

Answer: A Reaffirmation Notice indicates that no changes have been made to the document since its original issue. The cover will be updated to reflect the reaffirmation/date. A Change Notice indicates that changes have been made to the document but do not exceed 25% of the pages of the document. Change Notices are used to correct typographical, spelling, and numerical errors as well as update the Preparing Activity and other minor details. If the changes exceed 25% of the document or are technical in nature, a revision is required.

DOE/ISM Feedback…Workshop (Continued from Page 1)

through the DOE Integrated Safety Management System Internet Site at: **http://tis-nt.eh.doe.gov/ism/**. The Internet Page will include a call for participation in specific functions and will provide on-line registration forms, exhibitor and hotel information, and related information sites.

Name of Workshop:	DOE/ISM Feedback and Improvement
Location of Workshop:	Westin Peachtree Plaza Hotel, Atlanta, Georgia
Dates of Workshop:	July 20-21, 1999
Hotel Reservation Info:	Telephone: 1-800-WESTIN-1 or 404-659-1400



Be an early bird!

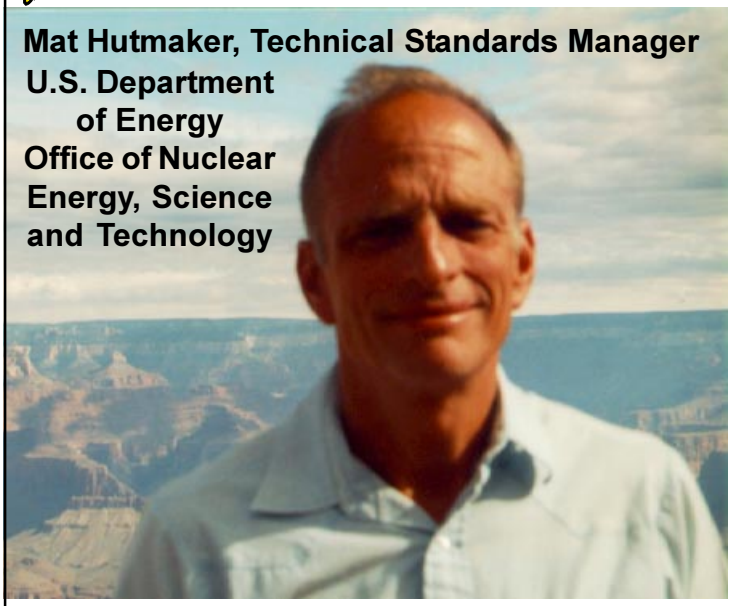
You can catch us at our NEW home page:
http://tis.eh.doe.gov/techstds/

Nashville Hosts TSMC 99-5 (Continued from Page 1)

Murphy and Bob Wayland led the third session, "Product Orientation and Technology Transfer." These discussions resulted in a number of action items designed to expand the TSP scope into more product-oriented activities, improve coordination between the TSP and the DOE Directives System, enhance the TSP Home Page, and other efforts to increase the effectiveness of the TSP.

Meeting minutes were published on May 27, 1999. The next conference call meeting of the TSMC will be held on June 17, 1999. All TSMs are encouraged to dial in and participate!

Technical Standards Manager Spotlight



In January 1998, Matthew A. Hutmaker became the Technical Standards Manager for the DOE Office of Nuclear Energy, Science, and Technology (NE). Matt retired from the Navy as a Captain in 1991 after 27 years as a submarine officer. His career included 22 submarine ballistic missile patrols, command of three submarines, and a final tour as the Nuclear Advisor to the Commander in Chief of the U.S. Pacific Forces. He started working for DOE in 1991 and has been with NE during his entire career with DOE. He started as Program Manager for the High Flux Isotope Reactor in Oak Ridge, Tennessee, then Team Leader for Reactor Operations and the Team Leader for Technical Support. He has recently been detailed back to Team Leader for Reactor Operations and that will be his permanent position.

The Office of Nuclear Energy, Science, and Technology usually does not sponsor new standards. This is interesting because NE started the first standards program in DOE. Old timers in NE remember in the early days of nuclear power when the DOE/NE sponsored standards were all that were available to nuclear designers and to the young nuclear industry. The DOE Standards are still important where tailoring for specific DOE needs is necessary. When new standards come out for review, Matt ensures that all offices in NE get the standards for review, including the Office of Naval Reactors. Additionally, he assigns one specific person with expertise in the area to do an in depth review of the proposed standard. "New or revised standards can have safety and/or resource impacts on NE facilities in the future," Matt told *The Standards Forum*.

Matt is an avid runner. His training is ongoing, and he is a competitive age group runner in the Washington area. One benefit of working at DOE was an opportunity to run the Grand Canyon rim-to-rim one day on leave after a trip to Albuquerque. He is also keeping his professional skills current. He is about a third of the way through the Master of Science in Environmental Management program at the University of Maryland.

Frank Sanda, Tenera, LLC, is the acting Technical Standards Manager (TSM) for Kaiser-Hill, LLC, at the Rocky Flats Environmental Technology Site (RFETS). His nuclear industry career began in 1974 with the EBR-II team at Argonne National Laboratory-West. In 1990, Frank transferred to the Rocky Flats site and has been working in the Directives Compliance arena since 1994. His participation in both the SID and S/RID programs provided the foundation to assume the duties of TSM last fall when the RFETS technical standards and standards management programs merged to form a one-stop shop for standards-related issues.

The approach to RFETS technical standards takes a slightly different route than that at many other DOE facilities. The Site is working towards closure by the year 2006 and the need for new or upgraded buildings is no longer a priority, nor are new programs expected. The primary focus is on Decontamination and Decommissioning, positioning RFETS as a potential leader in the development of D&D technical standards. Kaiser-Hill is in the process of merging List B Directives, local site, DOE, and non-Government standards into a single database. This should put a wealth of standards information at the fingertips of program managers. "I believe that much of the success and strength of the technical standards efforts at the various DOE sites lies in the help and cooperation of the Technical Standards Program Office (TSPO)", Frank told *The Standards Forum*. "In our particular case, where it is necessary to link directives and technical standards, the TSPO has made my job easier and more efficient. The TSP monthly teleconferences provide a cohesive approach to technical standards activities throughout the complex."

Frank commented with a smile that "One of my interests has been researching the family tree. Occasionally while working to locate documents or standards, I find myself using research techniques and the perseverance of "you know it exists somewhere" that I have acquired while in pursuit of elusive family members. Once that standard or document has been found, you can relish in the exhilaration of success!"

Topical Committee Developments

DOE Topical Committees (TCs) are chartered DOE working groups or technical groups (subject matter experts) that represent a technical or functional interest within the Department. TCs provide a bridge between DOE technical standards activities and non-Government consensus standards organization activities related to work within DOE. The TCs thus serve as the DOE focal point for technical standards issues in the particular technical or functional areas of interest. The National Technology Transfer and Advancement Act of 1995, Public Law 104-113, defines "technical standards" to mean performance-based or design-specific technical specifications and related management systems practices. Office of Management and Budget Circular A-119 defines "technical standard" as a document that describes materials, processes, products, systems, services, or practices. Topical Committees also have a role in technology transfer. They can function to incorporate new DOE technology, products, and services under the TSP.

The TSP encourages the formation of TCs where standardization of DOE products and services is beneficial. Just a couple of areas deemed to have potential for the formation of TCs are HEPA filters in defense programs and waste management processes associated with environmental management activities. Contacts are being initiated with appropriate established groups or subject matter experts.

If you are a member of a DOE working group or work in a functional area that could qualify as a TSP topical committee, contact M. Norman Schwartz, 301-903-2996, **Norm .Schwartz@eh.doe.gov**, or Richard Serbu, 301-903-2856, **Richard.Serbu@eh.doe.gov**. You will have the benefit of coordinating with your peers on technical standards activities and sharing expertise and lessons learned.

FYI - Kenneth G. Murphy, the potential point of contact for the Chemical Safety Interest Group which is organizing as a TSP topical committee, has retired. George W. Schlossnagle, EH-53, 301-903-6514, has picked up this activity for Ken and continues to refine the draft charter that was presented to the TSP in December 1998.

Biota Dose Assessment Committee - Sharing Expertise

By: Stephen Domotor, Chair, Biota Dose Assessment Committee (202-586-0871; ***Stephen.Domotor@eh.doe.gov****)*

Progress continues on the draft DOE Technical Standard, "A Graded Approach for Evaluating Radiation Doses to Aquatic and Terrestrial Biota" (Project ENVR-0011). Representatives of the Department's Biota Dose Assessment Committee (BDAC) attended the "Second International Symposium on Ionizing Radiation," hosted by the Atomic Energy Control Board of Canada and held in Ottawa, Canada on May 10-14, 1999. Representatives of the BDAC presented invited papers on the Department's initiatives to develop guidance for evaluating radiation doses to biota. The three papers were: (1) Using Science, Policy and Partnerships to Develop a Graded Approach for Evaluating Radiation Doses to Biota; (2) Derivation and Application of a Screening Methodology for Evaluating Radiation Doses to Aquatic and Terrestrial Biota; and (3) A Internet-Accessible Environmental Parameters Database: Providing a Needed Resource for Use in Biota Dose Assessments. These papers will be available in the symposium proceedings. This work, being conducted through the BDAC, was well received by the symposium delegates.

The BDAC's Annual Topical Committee Meeting will be held on August 18-20, 1999, in Washington, D.C. at the DOE Forrestal Building. An announcement and registration notice has been distributed. Meeting agenda items will include: (1) presentations from DOE field offices and national laboratories on site-specific biota dose assessment needs, methods development, and lessons learned; (2) working sessions on implementation of the draft DOE Technical Standard for evaluating radiation doses to biota using site-supplied datasets; (3) working sessions on a Internet-accessible database of environmental parameters as a resource for biota dose modeling and methods; (4) an update on national (e.g., NCRP) and international (e.g., IAEA) activities; and (5) a review of the BDAC Charter, Internet Site, and suggested work scope for the coming year. Those interested in learning more about the BDAC or becoming a member and participating in the upcoming meeting should contact Stephen Domotor (**Stephen.Domotor @eh.doe.gov**; 202-586-0871).

The Meteorological Topical Committee - A Facilitating Organization

By: Carl Mazzola, Chair, Meteorology Topical Committee (706-650-0939; ***carl.mazzola@stoneweb.com****)*

The purpose of the DOE Meteorology Topical Committee (MTC), approved by the DOE Technical Standards Program Office (TSPO) on August 26, 1998, is to facilitate the interaction between DOE and DOE contractor personnel with common interests regarding the identification and resolution of meteorological standards-related issues for the TSPO. Mr. Carl Mazzola, Certified Consulting Meteorologist, Stone & Webster Engineering Corporation, is the Chair of the MTC.

The objectives of the MTC include development and implementation of new meteorological standards for the DOE Technical Standards Program and assistance to interested DOE offices with the coordination of newly-published standards. This will include serving as an advisory group for the development and review of standards, directives, guides, and handbooks associated with the atmospheric sciences. The MTC also intends to provide appropriate interfaces with non-DOE standards development bodies (e.g., American Nuclear Society, Nuclear Regulatory Commission, Environmental Protection Agency) on any activities that could impact DOE directives requiring meteorological support. As the need arises, the MTC will also

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Standards *Actions*

DOE Technical Standards Recently Sent for Coordination

The appropriate Technical Standards Managers (TSMs) will provide selected reviewers with copies for comment. The full text of these documents is available on the Technical Standards Program (TSP) Internet Site at the following URL: **http://tis.eh.doe.gov/techstds/**. If you wish to comment on these documents, please notify your TSM.

- *Guide to Good Practice for Establishing Authorized Limits for the Release of Waste and Property Contaminated with Residual Radioactivity*, ENVR-0012, Henry (Hank) Himpler, EM-37, 301-903-2079, **Henry.Himpler@em.doe.gov**. Comments are due July 14, 1999.
- *Guide to Good Practices for Maintenance Supervisor Selection and Development*, TRNG-0007, John A. Yoder, EH-31, 301-903-5650, **john.yoder@eh.doe.gov**. Comments are due July 26, 1999.
- *Guide to Good Practices for Continuing Training*, TRNG-0008, John A. Yoder, EH-31, 301-903-5650, **john.yoder@eh.doe.gov**. Comments are due July 26, 1999.

Technical Standards Program Document Status as of 5/28/99

In Conversion	In Preparation	Out for Comment	Published in Past 30 Days
4	46	16	1

Total in process = 62

DOE Documents Recently Published

- DOE-HDBK-1119-99, *Guide to Good Practices for the Selection, Training, and Qualification of Shift Supervisors*, April 1999 (superseding DOE-STD-1061-93, February 1999).

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

Subcontractors and the general public may obtain copies from the U.S. Department of Commerce, Technology Administration, National Technical Information Service, Springfield, Virginia 22161; telephone 1-800-553-6847 or FAX 703-605-6900.

Copies of DOE technical standards (i.e., DOE Standards, Specifications, Handbooks, and Technical Standards Lists) are also available on the Internet at the following URL: **http://tis.eh.doe.gov/techstds/**.

The "recently published" document listed above has been added to the TSP Internet 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*. Please note that distribution of *ANSI Standards Action* is normally made only to individual members of ANSI or in group mailings to site members of ANSI. For information on site membership, ask your local ANSI contact. For information on individual or group ANSI membership, call Susan Bose at 212-642-4948, Email **sbose@ansi.org**. For further information on distribution policies of ANSI publications, call the ANSI customer service manager at 212-642-4979.

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* (see the ANSI Internet site, **http://www.ansi.org**) for a complete listing of changes and new publications, standards developing organizations, and additional information about submitting comments. Additional information on ANSI activities and available non-Government standards can also be found on the ANSI Internet site or through the National Standards System Network (**http://www.nssn.org**).

The following American National Standards are currently in coordination:

- AGMA 6009-A, *Gearmotor, Shaft Mounted and Screw Conveyor Drives* (new standard); comments due July 6, 1999.
- ASHRAE/SMACNA 126P, *Methods of Testing HVAC Air Ducts* (new standard); comments due July 6, 1999.
- ASME A41.1, *Safety Standard for Manual Methods of Building Access* (new standard); comments due July 20, 1999.
- ASME A112.14.3M, *Grease Interceptors* (new standard); comments due July 20, 1999.

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Standards Actions (Continued from Page 5)

- ASTM A971, *Test Method for Measuring Edge Taper and Crown of Flat-Rolled Electrical Steel Coils* (new standard); comments due July 20, 1999.
- ASME B18.2.8, *Clearance Holes for Bolts, Screws and Studs* (new standard); comments due July 6, 1999.
- ASME B31.8, *Gas Transmission and Distribution Piping Systems* (revision of ANSI/ASME B31.8-1995); comments due July 6, 1999.
- ASTM D2162, *Test Method for Basic Calibration of Master Viscometers and Viscosity Oil Standards* [revision of ANSI/ ASTM D2162-3 (R1998)]; comments due July 20, 1999.
- ASTM E1906-97, *Method for General Requirements for Bodies Operating Product Certification Systems* (revision of ANSI/ ASTM E1906-97); comments due July 20, 1999.
- ASTM E1955, *Radiographic Examination for Soundness of Welds in Steel by Comparison to Graded ASTM E390 Reference Radiographs* (new standard); comments due July 20, 1999.
- ASTM E1961, *Practice for Mechanized Ultrasonic Examination of Girth Welds Using Zonal Discrimination with Focused Probes* (new standard); comments due July 20, 1999.
- ASTM F1291, *Test Method for Measuring the Thermal Insulation of Clothing Using a Heated Manikin* (revision of ANSI/ ASTM F1291-96); comments due July 20, 1999.
- ASTM F1494, *Terminology Relating to Protective Clothing* (revision of ANSI/ASTM F1494-94); comments due July 20, 1999.
- ASTM Z1840Z, *Practice for Chemical Protective Clothing, Care and Maintenance Instructions* (new standard); comments due July 20, 1999.
- ASTM Z7836Z, *Test Method for Measuring Friction and Wear Properties of EP Lubricating Oils Using the SRV Test Machine* (new standard); comments due July 20, 1999.
- C136.31, *Roadway Lighting Equipment - Luminaire Vibration* (new standard); comments due July 6, 1999.
- EIA SP-4417 (if approved, to be published as ANSI/EIA 364-106), *Standing Wave Ratio (SWR) Test Procedure for Electrical Connectors and Sockets* (new standard); comments due July 6, 1999.
- EIA SP-4524 (if approved, to be published as ANSI/EIA 364-45A), *Firewall Flame Test Procedure for Electrical Connectors* (revision of ANSI/EIA 364-45-1991); comments due July 6, 1999.
- EIA SP-4526 (if approved, to be published as ANSI/EIA 364-10A), *Fluid Immersion Test Procedure for Electrical Connectors and Sockets* (revision of ANSI/EIA 364-10-1989); comments due July 6, 1999.
- ISEA 105, *Hand Protection Selection Criteria* (new standard); comments due July 6, 1999.
- UL 1951, *Standard for Safety for Electric Plumbing Accessories* (new standard); comments due July 6, 1999.
- UL 2182, *Standard for Safety for Refrigerants* (new standard); comments due July 6, 1999.

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

- 1/1777/FDIS, IEC 60050-815: *Superconductivity* - June 15, 1999.
- 65B/385/FDIS, ISO/IEC 9506-5: *Industrial automation systems - Manufacturing message specifications - Part 5: Companion standard for programmable controllers* - June 15, 1999.
- ISO/DIS 11933-4, *Components for containment enclosure - Part 4: Ventilation and gas-cleaning systems such as filters, traps, safety and regulation valves, control and protection devices* - August 7, 1999.
- ISO/DIS 11933-5, *Components for containment enclosures - Part 5: Penetrations for electrical and fluid circuits* - August 7, 1999.
- ISO/DIS 12795, *Nuclear fuel technology - Uranium dioxide powder and pellets - Determination of uranium and oxygen/ uranium ratio by gravimetric method with impurity correction* - August 7, 1999.
- ISO/DIS 12800, *Nuclear energy - Fuel technology - Guide to the measurement of the specific surface area of uranium oxide powders by the BET method* - August 7, 1999.

The following newly published international standards are available from ANSI:

- IEC 60877 TR3 Ed. 2.0 b:1999, *Procedures for ensuring the cleanliness of industrial-process measurement and control equipment in oxygen service.*
- IEC 60947-3 Ed. 2.0 b:1999, *Low-voltage switchgear and controlgear - Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units.*
- IEC 61000-6-2 Ed. 1.0 b:1999, *Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments.*
- IEC 61010-3-010 TR3 Ed. 1.0 en: 1999, *Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 3-010: Conformity verification report for IEC 61010-2-010, Particular requirements for laboratory equipment for the heating of materials.*
- IEC 62040-2 Ed. 1.0 b:1999, *Uninterruptible power systems (UPS) - Part 2: Electromagnetic compatibility (EMC) requirements.*
- ISO 3183-3:1999, *Petroleum and natural gas industries - Steel pipe for pipelines - Technical delivery conditions - Part 3: Pipes of requirement class C.*
- ISO 11267: 1999, *Soil quality - Inhibition of reproduction of Collembola (Folsomia candida) by soil pollutants.*
- ISO 14164:1999, *Stationary source emissions - determination of the volume flowrate of gas streams in ducts - Automated method.*

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Standards Actions (Continued from Page 6)

American Society for Testing and Materials

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

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

- New Standard, *Practice for Chemical Protective Clothing, Care and Maintenance Instructions* (Ref. Z1840Z).
- New Standard, *Guide for Application of Spray Applied Polyurethane Foam and Protective Coverings Over Existing Roofing Systems (Ref. Z2480Z).*
- New Standard, *Test Method for Flow of Hydraulic Cement Mortar* (Ref. Z4615Z).
- New Standard, *Practice for Determining Uniformity of Ingredients of Concrete From a Single Source* (Ref. Z5249Z).
- New Standard, *Guide for Evaluation and Selection of Alternative Daily Covers (ADCs) for Sanitary Landfills* (Ref. Z5454Z).
- New Standard, *Test Method for the Determination of Uranium by Ignition and the Oxygen to Uranium (O/U) Atomic Ratio of Nuclear Grade Uranium Dioxide Powders and Pellets* (Ref. Z5958Z).
- New Standard, *Guide for Pyrophoricity/Combustibility Testing in Support of Pyrophoricity Analyses of Metallic Uranium Spent Nuclear Fuel* (Ref. Z7058Z).
- New Standard, *Practice for Conducting Tests on Sealants Using Artificial Weathering Apparatus* (Ref. Z7329Z).
- New Standard, *Test Method for Determination of Percent Uranium, Oxygen to Uranium (O/U), and Oxygen to Metal (O/M) in Sintered Uranium Dioxide and Gadolinia-Uranium Dioxide Pellets by Atmospheric Equilibration* (Ref. Z7416Z).
- New Standard, *Test Method for Bulk Density of Geosynthetic Erosion Control Materials* (Ref. Z7650Z).
- New Standard, *Test Method for Deterioration of Geosynthetic Erosion Control Material From Exposure to Ultraviolet Light and Water (Xenon-Arc Type Apparatus)* (Ref. Z7652Z).
- New Standard, *Guide for Corrosion Testing of Aluminum-Based Spent Nuclear Fuel in Support of Repository Disposal* (Ref. Z7670Z).
- New Standard, *Test Method for Determination of Impurities in Plutonium: Acid Dissolution, Ion Exchange Matrix Separation and Inductively Coupled Plasma-Atomic Emission Spectroscopic (ICP/AES) Analysis* (Ref. Z7672Z).
- New Standard, *Specification for Latex and Powder Polymer Modifiers for Hydraulic Cement Concrete and Mortar* (Ref. Z7803Z).
- C 125-98, *Terminology Relating to Concrete and Concrete Aggregates* (revised standard).
- C 150-98, *Specification for Portland Cement* (revised standard).
- C 219-99, *Terminology Relating to Hydraulic Cement* (revised standard).
- C 1010-83(1992), *Guide for Acceptance, Checkout, and Pre-Operational Testing of a Nuclear Fuels Reprocessing Facility* (revised standard).
- C 1112-93, *Guide for Application of Radiation Monitors to the Control and Physical Security of Special Nuclear Material* (revised standard).
- C 1209-99, *Terminology of Concrete Masonry Units and Related Units* (revised standard).
- D 4227-95, *Practice for Qualification of Coating Applicators for Application of Coatings to Concrete Surfaces* (revised standard).

The following newly published standards are available from ASTM:

- A 262-98, *Practices for Detecting Susceptibility to Intergranular Attack in Austenitic Stainless Steels* (revised standard).
- A 479/A 479M-98, *Specification for Stainless Steel Bars and Shapes for Use in Boilers and Other Pressure Vessels* (revised standard).
- A 644-98, *Terminology Relating to Iron Castings* (revised standard).
- A 996-98, *Specification for Rail-Steel and Axle-Steel Deformed Bars for Concrete Reinforcement* (new standard).
- C 71-98, *Terminology Relating to Refractories* (revised standard).
- C 1259-98, *Test Method for Dynamic Young's Modulus, Shear Modulus, and Poisson's Ratio for Advanced Ceramics by Impulse Excitation of Vibration* (revised standard).
- D 1129-98, *Terminology Relating to Water* (revised standard).
- D 4107-98, *Test Method for Tritium in Drinking Water* (revised standard).
- D 5681-97, *Terminology for Waste and Waste Management* (revised standard).

(Continued on Page 8)

Standards Actions (Continued from Page 7)

- D 6106-97, *Guide for Establishing the Nomenclature of Ground-Water Aquifers* (new standard).
- D 6239-98, *Test Method for Uranium in Drinking Water by High-Resolution Alpha-Liquid-Scintillation Spectrometry* (new standard).
- D 6282-98, *Guide for Direct Push Soil Sampling for Environmental Site Characterizations* (new standard).
- D 6317-98, *Test Method for Low Level Determination of Total Carbon, Inorganic Carbon and Organic Carbon in Water by Ultraviolet, Persulfate Oxidation, and Membrane Conductivity Detection* (new standard).
- E 181-98, *Test Methods for Detector Calibration and Analysis of Radionuclides* (revised standard).
- E 230-98, *Specification and Temperature-Electromotive Force EMF Tables for Standardized Thermocouples* (revised standard).
- E 690-98, *Practice for In Situ Electromagnetic Eddy-Current Examination of Nonmagnetic Heat Exchanger Tubes* (revised standard).
- E 1040-98, *Specification for Physical Characteristics of Nonconcentrator Terrestrial Photovoltaic Reference Cells* (revised standard).
- E 1962-98, *Test Method for Ultrasonic Surface Examinations Using Electromagnetic Acoustic Transducer EMAT Techniques* (new standard).
- E 1980-98, *Practice for Calculating Solar Reflectance Index of Horizontal and Low-Sloped Opaque Surfaces* (new standard).
- E 1981-98, *Guide for Assessing the Thermal Stability of Materials by Methods of Accelerating Rate Calorimetry* (new standard).
- F 1796-97, *Specification for High Voltage Detectors Part 1 Capacitive Type to Be Used for Voltages Exceeding 600 Volts AC* (new standard).

American National Standards Projects Initiated

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

American Welding Society
Office: 550 NW LeJeune Road
Miami, FL 33126
Fax: 305-443-5951
Contact: Charles Fassinger, **chuck@aws.org**

- AWS D1.1, *Structural Welding Code - Steel* (revision of ANSI/AWS D1.1-98).

National Electrical Manufacturers Association (NEMA)
Office: 1300 North 17th Street, Suite 1847
Rosslyn, VA 22209
Fax: 703-841-3342
Contact: Mervis C. Calwise, **mer_calwise@nema.org**

- NEMA VE 2, *Metal Cable Tray Installation Guidelines* (new standard).
  Contact: Vince A. Baclawski, **vin_baclawski@nema.org**
- NEMA PB 1.1-1996, *General Instructions for Proper Installation, Operation, and Maintenance of Panelboards Rated 600 Volts or Less* (new standard).

Robotics Industries Association
Office: P. O. Box 3724
900 Victor's Way, Suite 140
Ann Arbor, MI 48106-7479
Fax: 734-994-3338
Contact: Jeff Fryman, **ria@robotics.org**

- RIA R15.02-1-1990, *Human Engineering Design Criteria for Hand-Held Robot Control Pendants* (Revision of ANSI/RIA R15.02-1-1990).

Underwriters Laboratories, Inc.
Office: 12 Laboratory Drive
Research Triangle Park, NC 27709-3995
Fax: 919-549-1842
Contact: Betty McKay, **allenb@ul.com**

- UL 1247, *Standard for Safety for Engines for Driving Pumps for Fire Protection Services* (revision of ANSI/UL 1247-1991).
  Contact: Terry Hill, **hillt@ul.com**
- UL 2111, *Standard for Safety for Overheating Protection for Motors* (new standard).
  Contact: Deborah Prince, **princed@ul.com**
- UL 2362, *Standard for Safety for Proprietary Substances and Nonfood Compounds* (new standard).

Comments, Questions, and Addresses

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

Addresses: To update the distribution list for this publication, please contact Marty Marchbanks, ORNL, 423-241-3658, FAX 423-574-0382, Email **mmf@ornl.gov**.

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

Brookhaven Adopts ISO 14001

Reproduced from Inside Energy*, December 28, 1998. Used by permission of The McGraw-Hill Companies' Inside Energy.*

Brookhaven is adopting an international standard for managing its environmental programs. The national lab announced recently that it will rely on the International Standards Organization's 14001 measure in planning, monitoring and improving its environmental management program. The system also will increase the lab's emphasis on regulatory compliance, pollution prevention and community outreach, officials said.

BNL joins hundreds of companies and several DOE sites in following the ISO 14001 standard. Organizations adopting it must identify all their activities that significantly affect the environment and develop a systematic approach for eliminating, minimizing or managing the impacts.

The new management system fulfills contractual commitments made by Brookhaven Science Associates when the nonprofit company took over management of BNL in March 1998. Susan Briggs, an environmental official at the lab, said the system will cost $2.7 million to implement.

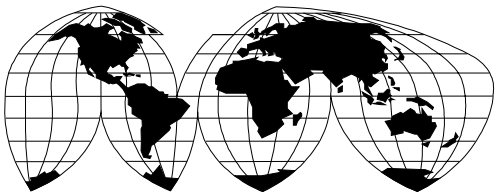
Nonetheless, she said the advantages are numerous. "The laboratory will save money through pollution prevention, reduced disposal costs and the elimination of environmental infractions that would make the laboratory subject to fines and or the shutdown of facilities," she said in a statement. Initially, BNL will pilot ISO 14001 implementation in three high-priority programs: reactor programs; waste management; and the Relativistic Heavy Ion Collider. The latter is a machine that physicists will use to understand the nature of matter just after the Big Bang. It is scheduled to begin operations next year.

The rest of the lab will join the new environmental management project next summer, Briggs said.

RAB Chief Executive Officer Elected to International Accreditation Forum

The Registrar Accreditation Board (RAB), the organization that operates accreditation programs for ISO 9000 and ISO 14001 registrars and auditor training course providers, announced on January 25, 1999, that Joseph R. Dunbeck, Chief Executive Officer of the RAB, was elected to the board of directors for the International Accreditation Forum (IAF), a membership group of accreditation bodies and allied organizations from throughout the world. The American National Standards Institute (ANSI), in consultation with the RAB, represents the ANSI-RAB National Accreditation Program (NAP) in the IAF. The main goals of IAF are to exchange information, harmonize members' operating procedures, and achieve and maintain IAF multilateral recognition agreements (MLAs). Accreditation bodies from 16 countries are now participating in the MLA. These organizations agree to recognize that the ISO 9000 registrations issued by registrars accredited by all other IAF MLA signatories were performed in a comparable manner. This recognition will eventually lead to worldwide recognition of a supplier's ISO 9000 registration.

The World of Standards



NEWS BRIEFS

On a U.S. National Standards Strategy

Rhett Dawson, President of the Information Technology Industry Council (ITI) presents ITI views on the appropriateness of a detailed national strategy for U.S. standards. In an article entitled "Considering a U.S. National Standards Strategy: Building A Framework for Success," that appeared in the January 1999 issue of the *Open Systems Standards Tracking Report*, he presents in four main sections the principles and priorities that ITI considers should be the foundation of a national standards development strategy. The *Open Systems Standards Tracking Report* may be viewed on the Internet at **http://www.digital .com/info/osstr/**.

ISO 9000 and 14001 Revisions

The status of the revisions of the ISO 9000 family of standards and the considerations being given to a revision of ISO 14001/14004 are discussed in the January 1999 issue of the *Open Systems Standards Tracking Report*. The article is "A Report on the ISO 9001 and 14001 Revisions," by Gerry F. Bartels, a management consultant. He looks at user needs, restructuring, and consolidation of the ISO 9000 standards, and relates the schedule for discussions on the revision of ISO 14001/14004. The *Open Systems Standards Tracking Report* may be viewed on the Internet at **http://www.digital.com/info/osstr/**.

IEEE Launches New Standards Organization

The IEEE has launched an independent, not-for-profit corporation offering industry innovative options and flexibility in standards development. The new IEEE Industry Standards and Technology Organization also provides a forum for post-development standards activities including marketing, accreditation, certification, branding, and conformity assessment. The new organization is an affiliate and complement to the existing IEEE Standards Association (IEEE-SA). Together, these two organizations enable the IEEE to offer an unprecedented level of choice through a complete menu of standards activities and services. For more information, visit the IEEE Internet site (**http://www.ieee.org/**).

Topical Committee Developments (Continued from Page 4)
develop technical positions on meteorology standards for adoption by non-DOE technical standards entities and will assist counterpart standards development organization topical committees (e.g., environmental restoration, radiological doses to biota) in the development and review of national and international technical standards.

The MTC operates under the oversight of the DOE Meteorological Coordinating Council (DMCC), a coordinating group of DOE and DOE contractors associated with meteorological programs at more than 15 DOE facilities. The technical expertise of the DMCC is available to assist the MTC in achieving all of its objectives, inclusive of the preparation of recommendations for each DOE sponsor. The DMCC provides a forum for increased discussion and coordination on matters that require meteorological information and guidance. Through the MTC, the DMCC fosters an operational perspective in the development of meteorological standards and resolution of program issues.

The present MTC membership involves the efforts of 11 atmospheric scientists from a wide spectrum of DOE offices. The MTC convened its initial meeting in conjunction with the DMCC Meeting in Las Vegas, NV, on October 8, 1998, and intends to reconvene September 13-14, 1999, in conjunction with the annual DMCC Meeting and the ANS 7th Topical Meeting on Emergency Preparedness & Response in Santa Fe, NM. The MTC intends to conduct quarterly teleconferences in implementing its charter and resolving emerging issues. The primary activity of the MTC involves the development and oversight of a comprehensive meteorological data monitoring standard (i.e., ANSI/ANS-3.11, "American National Standard for Determining Meteorological Information at Nuclear Facilities") to replace ANSI/ANS-2.5 (1984) and DOE/EH-0173. The MTC intends to introduce this standard to the DOE TSPO as soon as it completes its remaining internal consensus reviews in June 1999. The MTC will also be considering the adoption of existing meteorological standards (e.g., ASTM) that have applicability in the DOE system. In addition to its work on the standards process, the MTC intends to sponsor applicable projects that involve the development of directives, guides, and handbooks associated with the atmospheric science applications. The primary focus of all of these activities is to assist DOE meteorological program managers with program implementation.

DOE Metrology Committee - Third Annual Meeting Focuses on Relationships with DoD

By: Don Ragland, Sandia National Laboratories-Albuquerque (SNL/A) (505-845-9623, ***dragla@sandia.gov****)*

The third annual meeting of the DOE topical committee on Metrology (Committee) targeted relationships with DoD metrologists at its March 1999 gathering, hosted by Roy Capshaw at the new DOE/Nevada Operations Center in Las Vegas.

Ken Jensen (Allied Signal/KC) reported that two 'papers' were ready for publication on the Committee's Internet site. In addition, Dick Pettit, DOE representative to NACLA, noted that his working group should have the Metrological Capabilities Matrix for DOE laboratories in operation on the Internet site by this summer. Visitors to the Metrology Internet site will be able to identify DOE labs that provide metrological services in many categories.

Don Ragland (SNL/A), Webmaster for the Committee's Internet site, reported that the Internet site was inaccessible for updating for several months because it was in the process of being transferred from its location on a server at OSTI to its new residency on a server at ES&H Technical Information Services. HQ assures him that the site will be back in full operation early this summer. (The site's URL remains the same: **http://www.doe.gov/metrology/mchome.html**)

Several guest speakers and items to be considered formed the agenda for this year's meeting. For 1999-2000, the Committee listened to presentations by representatives from NACLA, NIST, NELAC, DAM, HIPC, and DoD, and ultimately established three working groups to pursue: (1) Identification of immediate payback activities for the Committee, (2) Analysis of relationships with other metrology organizations, and (3) Establishment of a working relationship with DoD.

Mr. Joe Dressel, Calibration & Measurement Technology representative for the Joint Technical Coordinating Group [JTCG] of the U.S. Armed Forces, spoke for DoD at the Las Vegas meeting. Dressel explained the structure of the JTCG, pointed out the close similarities of purpose between JTCG and the DOE Metrology Committee, and ended his talk with a call for suggestions from both groups for ways that the JTCG and DOE metrology organizations can work together in addressing mutual interests and goals. As part of its ongoing mission to share metrology information, resources, and practices, the Committee declared its intentions to establish and maintain a close working relationship with metrology organizations within DoD and formed a working group to address this issue.

Among other business, the Committee chose Allied Signal/KC as the site for its 2000 meeting. A complete report of the activities at the Las Vegas meeting, including action items for 1999-2000, is available in paper form, and will be included also on the Metrology Internet site sometime this summer.

For more information, and for an immediate copy of the 1999 report, contact: Don Ragland (SNL/A): 505-845-9623 or **draglas@sandia.gov**.

Performance-Based Management Special Interest Group

The Performance-Based Management SIG - Home Page Updates

By: Will Artley, Coordinator, Performance-Based Management SIG, 901-373-7493, **artleyw@orau.gov**.

Recent updates to the PBM SIG home page (**http://www.orau.gov/pbm/**) provide significant improvements:

(Continued on Page 12)

Upcoming Meetings

June 23-25, 1999

The Fire Protection Research Foundation Fire Risk And Hazard Research Application Symposium

Hyatt Islandia - San Diego, California

Topics: Current developments in fire risk, fire toxicity ("incapacitation"), wire and cable testing, and plenum fire safety. Related research initiatives just underway are delivering fire risk and hazard breakthroughs for fire engineers, code enforcers and test laboratories worldwide. Standard writers, scientists and practitioners will report and debate actions in NFPA, ISO, ASTM and the Building Codes. Presenters and panels comprising today's principal actors in fire risk will offer and invite research recommendations.

For more information contact the NFPA home page: **http://www.nfpa.org/**.

August 16-17, 1999

Standards Engineering Society Annual Conference

Theme: *Standards Strategies in a Competitive World*

Delta Chelsea Inn - Toronto, Ontario.

Six sessions will highlight subjects such as globalization of industry and markets, rapid technological changes, environmental and consumer concerns, standards issues and their regional impact, NAFTA Lessons Learned, latest developments in the changing world of conformity assessment, the effect of corporate mergers on SDOs, and new tools and techniques to do things "cheaper, faster, smarter."

For more information, check URL: **http://www.ses-standards.org/conference.html**.

September 12-16, 1999

2nd Topical Meeting of the American Nuclear Society Division of Decommissioning, Decontamination, and Reutilization

Theme: *D, D, & R of Commercial & Government Facilities*

Holiday Inn - Knoxville, Tennessee

This meeting will provide a broad forum for discussion of the field of nuclear facility decommissioning, decontamination, and reutilization of commercial and DOE facilities. The focus will be on regulatory issues, project management, innovative technologies, status of facilities in the D&D process, site and facility characterization, spent fuel storage, recycling materials, waste management, environmental controls, industrial health and safety, cost estimating, reutilization, electric utility deregulation, completed projects, and international programs.

For more information, check out the ANS meetings Internet site at URL: **http://www.ans.org/meetings/**.

September 20-24, 1999

1999 World Standards Week

Theme: *Building on Standards*

Crystal City Marriott - Arlington, Virginia

World Standards Day is a celebration of the voluntary consensus standards system. A number of activities and events showcase the standards and conformity assessment participation of individuals from around the globe. The week's highlight will be the World Standards Day (WSD) exhibit, reception and dinner on Wednesday, September 22 at the Wyndham City Centre Hotel in Washington, D.C.

For more information, check URL: **http://web.ansi.org/rooms/room_5/**.

October 4-7, 1999

Integrating Fire Research Into Practice

Chicago, Illinois

Co-organized by: National Institute of Standards and Technology, Building and Fire Research Laboratory (NIST/BFRL) and the Society of Fire Protection Engineers (SFPE).

A forum for recent advances in fire safety engineering applications through technical presentations, workshops, and case studies to stimulate the interaction between the fire research and fire safety engineering communities. There will be a tour of Underwriter Laboratories Fire Test Facility.

For more information, call 310-718-2910 or check the SFPE home page at URL **http://www.mindspring.com/~sfpe1/**.

November 14-18, 1999

American Nuclear Society Winter Meeting

Long Beach Convention Center and Hyatt - Long Beach, California

This Nuclear Technology Expo will include two embedded topical meetings: (1) Electric Power Deregulation: Industry Update and (2) Nuclear Applications of Accelerator Technology (**http://www.engr.utk.edu/org/ans/AccApp99/**).

For more information, check the ANS Internet site at URL **http://www.ans.org/meetings/**.

November 14-19, 1999

American Society of Mechanical Engineers Winter Annual Meeting (1999 International Mechanical Engineering Congress and Exposition)

Theme: *Engineering Innovations for Increased Productivity*

Opryland Hotel Convention Center - Nashville, Tennessee

For more information, see the ASME home page at URL **http://www.asme.org/**.

Topical Committee Developments (Continued from Page 10)

1. So far, we have included performance measures from the contracts of Ames Laboratory, Brookhaven National Laboratory, Jefferson Lab, Lawrence Berkeley National Laboratory, Lawrence Livermore National Laboratory, Los Alamos National Laboratory, Pacific Northwest National Laboratory, and Stanford Linear Accelerator Center. The contract performance measures for the National Renewable Energy Laboratory will be added soon. Those wishing to add their site's contract performance measures, please forward them to me.
2. A "Performance-Based Management Conferences" page has been added to the site. This page contains non-PBM SIG sponsored conferences. Please note that the PBM SIG does not endorse nor discourage attendance at any conference listed on this page. If you would like a noteworthy conference posted to this page, please forward the information to me.
3. One page that has been on the PBM SIG home page for quite a while, but is worthy of pointing out to you, is the "Recent Updates" page. It's linked off the home page and can be accessed by clicking on the "Last Updated <date>" right below our mission statement. Going to this page will save you the effort of searching for what has changed recently. It lists the updates for the last three or four weeks by the following categories: New Pages Created, Existing Pages Edited, and Links Added. The exact date of each update also is given.
4. Our "Links" page contains a thorough compilation of sites related to the performance-based management spectrum. And each is bookmarked and catalogued by subject area and provides a description of what is contained at that site. If you haven't looked at our links, please do so. You'll be surprised. If you want to send me a link, please do so.

Standards *Forum*

Editor ..... Marty Marchbanks

Distribution: If you would like to have your name added to (or removed from) the mailing list for this publication, or you need to make an address change, please notify Marty Marchbanks, Oak Ridge National Laboratory (ORNL), 423-241-3658; FAX: 423-574-0382; Email: **mmf@ornl.gov**.

Comments: If you have any questions or comments please contact Rick Serbu, EH-31, 301-903-2856; Email: **Richard.Serbu@eh.doe.gov**. If you have any questions or comments on DOE standards projects, please call Don Williams, ORNL, 423-574-8710; Email: **williamsdljr@ornl.gov**.

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The
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