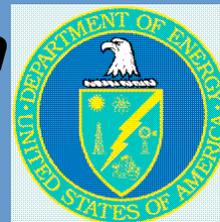


March 2008

Visit the Technical Standards Program Web Site at <http://www.hss.energy.gov/nuclearsafety/techstds/>

The Standards Forum and Standards Actions



DOE Technical Standards Program Document Status

02-27-2008

Activity Summary

In Conversion – 4

In Preparation – 22

Out for Comment – 25

Published in February – 3



5-year Review Status

Proposed for Revision – 5

Revision in Progress – 6

Proposed for Reaffirmation – 1

Reaffirmation in Progress - 21

Cancellations Pending – 9

Cancellations in Progress - 0

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Technical Standards Program Manager's Note

Hello, everyone!

I hope that you have all had a positive start to your 2008! Based on customer feedback, the DOE Technical Standards Program (TSP) continues to serve the DOE community in an efficient manner. However, we are always striving to maintain a high quality program and continually improve our TSP services. In the coming months, we plan to explore and begin work on procedure and process enhancements as part of our effort to foster continuous improvement and effectiveness of the Program.

The TSP's review and comment system for draft standards (RevCom), for instance, is continuously improved based on user feedback. One addition currently being developed, gives subject matter experts (Review Activities) the ability to track the disposition of their comments. In TSP RevCom, Technical Standards Managers (TSMs), who act as a single point of contact for their organizations on technical standards related work, have the right to remove a Review Activity's (RA) comment(s) if they feel that the comment is not applicable or appropriate. In a situation such as this TSMs don't always inform RAs about their decision to eliminate an RA's comment, leaving the RA to believe that the comment has been forwarded to the standard writer (Preparing Activity) for resolution. This new feature will provide an RA with a "forward view", so-to-speak. An RA will be able to create a report in RevCom that identifies which of his/her comments were or were not forwarded up the hierarchical chain to the Preparing Activity. RAs can then contact their respective TSMs to discuss the reasons for comment removal.



Jeff Feit

Another enhancement involves the capability to access non-government standards (a.k.a. "Standards Access"). According to OMB A-119 *Federal Participation in the Development and Use of Voluntary Consensus Standards and in Conformity Assessment Activities*, and P.L. 104-113 *National Technology Transfer and Advancement Act of 1995*, agencies of the federal government are supposed to use non-government standards where they are applicable and appropriate, in lieu of internally developed standards. In late January 2008 I sent out a memorandum asking TSMs to do a preliminary investigation into the level of standards access that exists within their respective organizations. The responses I received were enlightening. Many organizations throughout the DOE complex have had stand-alone or independent arrangements for standards access for years; a fact of which I was completely unaware. I will be working with these organizations, as well as potential standards access vendors, to explore an option to pursue an online standards access partnership network that will benefit our office and multiple DOE sites and programs from both a cost and usability perspective.

The Articles

Our first article is entitled, *How Standardization Helps Consumers*. It was taken from the ANSI website "Consumer Affairs Overview". Consumer involvement in standardization helps to promote safety in design, and encourages product developers to fabricate more sound products. Consumers help to bring about new and improved standards by raising the awareness of key issues. The end result is a more reliable, safe, and economical product.

The second article was written by my counterpart in the Department of Defense, Greg Saunders. Mr. Saunders is also the 2007 Chairman of the ASTM Board of Directors. In his article, *What ASTM International Stands For*, Mr. Saunders discusses the evolution of ASTM from an American

standards developer to an international organization that promotes public health and safety, contributes to the reliability of materials and products, systems and services, and facilitates regional, national, and international commerce.

Finally, I would like to thank Gustave (Bud) Danielson for his contribution to the Technical Standards Manager Spotlight. Please take the time to read about one of our valued members of the TSP community.

That's it for this edition of the Standards Forum and Standards Actions. Enjoy our publication and I'll see you in June 2008! □

How Standardization Helps Consumers

Reprinted from the ANSI web-site "Consumer Affairs Overview" at http://www.ansi.org/consumer_affairs/overview.aspx?menuid=5

As consumers, our lives are made easier by standards.

- We screw a light bulb into its socket. We flip a switch and, voilà, there is light.
- We are traveling and in need of cash. We put a card into an ATM machine and out comes money.
- We come to a stop at a red traffic light, because a red light means stop. When the light changes to green, we proceed on, because green means go.



All of these everyday examples that we take for granted are made possible because of standards and standardization.

What Are Standards?

Simply put, a standard is a documented agreement, established by a consensus of subject matter experts and approved by a recognized body, that provides rules, guidelines or characteristics to ensure that materials, products, processes and services are fit for their purpose. Voluntary consensus standards developed by industry in accordance with ANSI's procedures for due process, openness and consensus are often subsequently adopted by the government as part of the regulatory framework.

How Consumers Help Standardization

Consumers are defined as those individuals who use goods or services to satisfy their individual needs and desires, rather than to resell them or to produce other goods or services with them. Products that take into account consumer needs regarding design, packaging, and usage are more likely to be accepted into the marketplace, and more likely to be adopted into regulation.

Consumer involvement in standardization not only promotes safer, healthier and more environmentally sound products and services, it also increases consumer confidence in the quality and reliability of products and services, and provides consumers a greater selection of goods and services at lower costs.

Consumers have played an important role in raising awareness of issues for consumers having special needs, for example, children, the elderly and the disabled. Consumer representatives also have recommended entire new subject areas for standardization. For example, standards for services, e-commerce consumer protection guidelines, and international environmental and corporate social responsibility standards are all subjects that were introduced by consumer advocates.



Getting Involved

One of ANSI's primary missions is to further voluntary standards and conformity assessment activities as a means of benefiting the public health, safety and environment. Another is to assure that the interests of the public are protected and represented in standards activities. Accordingly, ANSI has established a [Consumer Interest Forum](#) to facilitate the representation of consumer interests in the voluntary standardization process. □

What ASTM International Stands For

By Gregory E. Saunders, 2007 Chairman of the ASTM Board of Directors

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I sing in my church choir. Like most choirs I've been with, the members not only enjoy singing but also genuinely enjoy each other. And of course, you know you're "in" when the other choir members feel comfortable teasing you. So, on a Thursday evening early this year, shortly after publication of the SN issue with my interview and picture on the cover, I arrived at rehearsal to find it posted on the bulletin board. I received the requisite teasing about being a cover model, asking where the centerfold was, and asking me for autographs. It was all in good fun. Harley Hopkins, a longtime ASTM International member and a manager in regulatory and scientific affairs at the American Petroleum Institute, had given his wife Carol Bowers, director of the Geo-Institute of the American Society of Civil Engineers and a soprano in our choir, a copy of the issue — which she brought to rehearsal.

Carol and Harley know about ASTM. But after the teasing was over, the article prompted a lot of people to ask, "What does ASTM stand for?" During my term as chairman of the board this year, I had heard our president, Jim Thomas, asked this question a few times, and I had pretty much adopted his answer. The letters "ASTM" used to stand for the American Society for Testing and Materials. But the truth is, that is pretty misleading.

ASTM International is not, and hasn't been for many decades, just American. ASTM has members from more than 120 nations around the world, and about one of every five members lives outside the United States. ASTM standards are widely used around the world in many applications.

ASTM is not a "society" in the traditional sense. We are not a collection of a particular kind of engineer or scientist, or any other profession. ASTM membership is open to anyone who has an interest in any of the wide array of topics on which ASTM committees develop standards.

ASTM International does no testing. While we have an impressive library of test method standards, we are not a society of testers. And lastly, while ASTM built its early reputation on standards for basic materials, the portfolio now includes so many things beyond materials that any implication that we have limited our scope in this way is simply incorrect.

I have used this kind of description many times to help people understand a little about ASTM International. Recently, however, I began to think about addressing this from a somewhat different angle. The other side of this question has nothing to do with what the letters signify; it invites a more thoughtful treatment of what principles, standards and concepts the organization known as ASTM does stand for.

First, ASTM International stands for fidelity to its mission. In case you haven't looked at it in a while, here it is: "To be the foremost developer and provider of voluntary consensus standards, related technical information and services having globally recognized quality and applicability that:

- Promote public health and safety, the environment and the overall quality of life;
- Contribute to the reliability of materials, products, systems and services; and
- Facilitate international, regional and national commerce."

As a member of ASTM International's board of directors for seven years, and of the executive committee for the past four, I can tell you that when discussions arise about whether ASTM should embrace some new activity or whether we should limit some activity, they center around our mission. There are, as there should be, discussions of financial impacts and the possible risk involved, but in the end it is the mission that rules.

I spent one year as chairman of ASTM's finance and audit committee, and while I didn't expect anything different, that experience reinforced the belief that ASTM stands for integrity — in everything. Its business processes are based on ethical principles just as surely as they are based on good accounting practices. Those processes and practices are independently audited both by a respected outside accounting firm and by an F&A committee that operates independently of staff influence.

ASTM International is also a responsible corporate entity. There is a long list of organizations to which, each year, ASTM gives money, equipment, meeting space and of course, standards — because both the staff and the board think it is important to do so. Contributions go to local, national and international civic organizations and to the town government of West Conshohocken, Pa., where ASTM has its headquarters. Standards have been donated for Iraq reconstruction, the Conshohocken Free Library, and construction efforts in Lebanon, just to name a few.



Gregory E. Saunders

ASTM International has an excellent staff. I work with many standards organizations and it would be insulting to the dozens of brilliant, innovative, talented and committed staffs of the other organizations for me to say that ASTM's staff is the best. However, I haven't found any better. This is a group of dedicated professionals who routinely excel. But they couldn't be as productive as they are unless management created the atmosphere to encourage them. Both staff management and the board foster and reward hard work, innovation and risk taking in furthering ASTM's mission.

ASTM International believes in member leadership. As a member of the board of directors, I have seen the quality of member leaders who come to the board to participate in the guidance and direction of the organization. This is an organization led by a strong executive, and an executive who is led by a strong board.

But, at the most basic level, ASTM International is all about the standards — their creation, their quality and their distribution.

ASTM International has perhaps the most user-friendly and technologically advanced suite of tools available anywhere to support the thousands of members who gather under our banner to write standards. As I write this, I'm on my way to my sixth committee week as chairman of the board, and what I see at these meetings is a member support system that is unsurpassed. This organization works very hard to stay at the forefront of every kind of support that a member could want, whether it is technological tools, access to editors and reference materials, meeting and new activity support, or anything else that members need to make development, coordination and completion of ASTM standards as easy as possible. ASTM International believes in and supports the basic tenets of openness, fairness, inclusiveness and participation by all stakeholders. These foundational tenets mean that all affected parties can come to the table and have their views heard, considered and fairly dealt with. And, if at any time participants feel they have not been fairly dealt with, a well-defined appeals process ensures them due process.

ASTM stands for quality and technical excellence. The standards produced by ASTM committees represent the collective judgment of technical experts, manufacturers, users, academicians, public interests, quality assurance professionals, consumers and an endless list of other stakeholders. The proof is in the use — ASTM standards are adopted and used by top-quality manufacturers, users and buyers of all kinds of products; by federal, state and local regulators; by other standards and code development organizations and by dozens of nations.

And when it comes to making ASTM International standards available to its customers, ASTM once again stands out. Standards are available in paper when that is the medium of choice, in electronic form, on CD, in collections, through enterprise-wide subscription and through third-party providers. Flexibility is the code word in finding ways to meet customer demand.

As document locking has become more prevalent in the electronic publishing world, ASTM International has demurred, preferring to keep documents easy for customers to use. It is the judgment of ASTM management that digital rights management software, at least as it exists today, causes too many problems for users, and that is antithetical to customer service. ASTM aggressively protects its intellectual property, but it does so based on the precept that customers are honest and want to do the right thing.

My list could go on, but it doesn't need to. What does ASTM International really stand for? It stands for being the best. Whether it is a question of integrity, fidelity to mission, corporate responsibility, staff, leadership, standards development, standards, member support, distribution — the answer is always the same. ASTM either is the best, or is among the best.

There is one other thing that ASTM International does extremely well — and that is to stay alert and maneuver. I take these words from a briefing slide I once saw. An admiral was talking about responding to world conditions, and the words on his slide were, "There are no permanent victories — to win one must stay alert and maneuver!" It is a truism in war, in life, in business and in technology. It is no less true in the standards world, and we do it very, very well.// □

Technical Standards Manager Spotlight



Gustave (Bud) Danielson
Quality & Safety Management
Chief of Nuclear Safety Staff
Office of the Under Secretary of Energy

Gustave (Bud) Danielson is a member of the Chief of Nuclear Safety (CNS) staff. He assists the CNS in maintaining operational oversight of DOE nuclear facilities for the Central Technical Authority (CTA), the Under Secretary of Energy. One element of that function includes review of regulations, directives and technical standards to recommend concurrence actions to the CTA. Bud has worked for the Department since 1990 serving as a Quality Assurance, Safety, and General Engineer for the Offices of New Production Reactors, Nuclear Energy, and Environment Safety and Health. He joined the CNS in August 2005.



Bud Danielson

Prior to joining the Department, Bud was employed by the Bechtel Corporation for over 11 years at five commercial nuclear power construction projects.

Bud has represented DOE in national and international standards committees since 1990. He has served in various standards roles, including: author, standards project manager/leader, DOE Technical Standards Manager, DOE Technical Standards Program Topical Committee Chairman, and National Standards Committee Chairman.

Currently, Bud represents the Department on several national/international organizations including: U.S. Technical Advisory Group to ISO TC176 "Quality Management and Quality Assurance" (ISO 9001); the ANSI International Conformity Assessment Committee; the QA Management System Requirements for Quality and Safety Group at the International Atomic Energy Agency (IAEA), the ASME Main Committee on Nuclear Quality Assurance (NQA-1); the NQA Subcommittee on Applications as Chairman; and, the Executive Committee on NQA. He was also recently elected Vice Chairman of the Main Committee on NQA.

Gustave has a Bachelors of Science in Construction Engineering and Management from Spring Garden College (Philadelphia, PA), and a Business Management Certificate from Golden Gate University and Bechtel Power Corporation. He also attended graduate courses toward a Masters

in Business Administration at Villanova University, PA.

Bud can be reached by phone at 301-903-2954, or by e-mail bud.danielson@hq.doe.gov. □

Topical Committee Developments

By M. Norman. Schwartz, HS-21,
Office of Nuclear Safety Policy & Assistance

The following report of topical committee activities summarizes information culled from responses to an e-mail survey request regarding the current Status of DOE Technical Standards Program Topical Committees. Spokespersons for the Quality Assurance (QA) Topical Committee, the Chemical Safety Topical Committee, the Industrial Hygiene Coordinating Committee (IHCC), the Emergency Management Issues Special Interest Group (EMI SIG) Topical Committee, and the DOE Meteorological Coordinating Council or DMCC/Meteorological Topical Committee provided the text for this report.

Quality Assurance Topical Committee

Gustave (Bud) Danielson indicated that the Quality Assurance (QA) Topical Committee is inactive. He indicated that one of the primary functions of the group was to involve other subject matter experts in his national/international standards work. Some of these functions are currently performed by the EFCOG QA group, a DOE contractor organization. The TSP will work proactively with DOE Program elements to determine if there is interest in reactivating this Topical Committee.

Chemical Safety Topical Committee

The following activities are planned in Fiscal Year 2008 for the Chemical Safety Topical Committee:

Continued on next page

- Annual Workshop at DOE Headquarters Forrestal Building from March 04-06, 2008;
- Publication of revision of the Chemical Management Handbook, Volume 3 (DOE-HDBK-1139/3-2005);
- Publication of a journal article on reactive chemicals;
- Benchmarking Chemical Management Systems with EFCOG; and
- Listing of resources for chemical substitution with EFCOG.

Industrial Hygiene Coordinating Committee

The IHCC holds annual meetings in conjunction with the American Industrial Hygiene Conference and Exposition (AIHCE) DOE Meeting. IHCC priorities for 2008 include the support of DOE headquarters initiatives to integrate health and safety programs and publicize highly effective industrial hygiene efforts. IHCC initiatives include establishing liaison with other health and safety specialty groups such as occupational medicine, updating the DOE technical standard for industrial hygiene, setting up an industrial hygiene bulletin board or web site, and periodic meetings with the Headquarters Office of Health, Safety and Security management to promote communication and integration.

Emergency Management Issues Special Interest Group

Planning is currently underway for the 23rd annual EMI SIG conference to be held May 5-10, 2008, in Reston, VA. The 14th DMCC/Meteorological Topical Committee Meeting will be held in conjunction with the EMI SIG annual conference. This year's theme for the EMI SIG conference is *Elect to Perfect*, a focus on achieving excellence in emergency preparedness programs while facing the challenge of change. Publication of an updated Emergency Management Guide (EMG), a multi-year project, was completed in July 2007. The five volumes of the EMG published were: DOE G 151.1-1A, *Management Fundamentals and the Operational Emergency Base Program*; DOE G 151.1-2, *Technical Planning Basis*; DOE G 151.1-3, *Programmatic Elements*; DOE G 151.1-4, *Response Elements*; and DOE G 151.1-5, *Biosafety Facilities*. The Emergency Management Accreditation Program, an initiative of the EMI SIG Topical Committee to reduce risk by assuring the DOE site and its stakeholders that the site emergency management program has been evaluated against recognized standards and requirements by third-party evaluators who apply those standards with uniformity and without bias, conducted a pilot assessment at Y-12 in April 2007. A draft DOE Handbook, *Temporary Emergency Exposure Limits: Methods and Practice*, is currently in TSP RevCom coordination. This Handbook is a product of the EMI SIG Topical Committee's Subcommittee on Consequence Assessment and Protective Actions.

DOE Meteorological Coordinating Council

A DMCC Self-Assessment Guide is undergoing final review and should be available to DOE/NNSA meteorological program managers in early 2008. This Guide will allow DOE sites to determine the posture of their meteorological programs and to support site assistance visits made by DMCC members. DMCC members have been actively tracking the revision to Chapter 4, Meteorological Monitoring, of Guide DOE/EH-0173T, Environmental Regulatory Guide for Radiological Effluent Monitoring and Environmental Surveillance. DMCC members continue development work on five meteorological non-government voluntary consensus standards: ANSI/ANS-2.3, ANSI/ANS-2.15, ANSI/ANS-2.16, ANSI/ANS-2.21, and ANSI/ANS-3.8.10. ANSI/ANS-2.15 sunsets in 2010 and a DMCC-led working group plans to meet during the June 2008 Nuclear Utility Meteorological Data User Group Meeting to determine whether this standard should be reaffirmed or merits a revision. Lastly, DMCC members plan to present a paper at the 10th Topical Meeting on Emergency Preparedness & Response to be held in Albuquerque, NM, in March 2008. The paper will discuss establishment of Software Quality Assurance principles associated with meteorological data. □



Welcome Aboard the TSMC!

By M. Norman. Schwartz, Office of Nuclear Safety Policy & Assistance (HS-21)

The Technical Standards Managers (TSMs) are the backbone of the DOE Technical Standards Program! These knowledgeable individuals serve as their organization's standards point of contact and contribute to the coordination of Department-wide TSP activities. A great deal of their work time is spent in assuring that standards activities take place in a manner that will promote safe, economical, and efficient operations locally and across the DOE complex.

With nearly 90 active and mobile people involved in TSM activities, it can be a daunting task just to keep up with the retirements and reassignments affecting the TSM roster.

This "Welcome Aboard" feature is designed to introduce you to the new TSMs and help you keep abreast of the rapidly changing make-up of the Technical Standards Managers' Committee (TSMC). A complete list of TSMs can be found at <http://www.hss.energy.gov/nuclearsafety/techstds/contact/stdmgrs.html>.

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STANDARDS ACTIONS

1.0 DOE STANDARDS ACTIONS

The complete list of all DOE Technical Standards projects and their status is available on the Technical Standards Program (TSP) web page at

<http://www.hss.energy.gov/nuclearsafety/techstds/>. To access these standards, go to our web page, click on "DOE Technical Standards," then choose Projects, Approved Standards, Recently Approved Standards, or Drafts for Review, as appropriate, on the left frame of the page.

1.1 New Projects and DOE Technical Standards in Revision

The following entries were received in February 2008:

- *Radiological Worker Training*, DOE-HDBK-1130-2007, TRNG-0062, January 18, 2008; Point of Contact: Peter O'Connell, Phone: 301-903-5641;
- *Guide of Good Practices for Occupational Radiological Protection in Plutonium Facilities* (CH2, December 2006), DOE-STD-1128-98, SAFT-0120, February 6, 2008; Point of Contact: Peter O'Connell, Phone: 301-903-5641;
- *Guide of Good Practices for Occupational Radiation Protection in Uranium Facilities*, DOE-STD-1136-2007, SAFT-0121, February 6, 2008; Point of Contact: Peter O'Connell, Phone: 301-903-5641; and
- *Laboratory Accreditation Program Administration*, DOE-STD-1111-98, SAFT-0122, Point of Contact: Robert M. Loesch, Phone: 301-903-4443.

1.2 DOE Technical Standards Posted in RevCom for TSP

Your Technical Standards Manager (TSM) will initiate requests for specific reviewers to comment on these drafts. The list of TSMs can be found at:

<http://www.hss.energy.gov/nuclearsafety/techstds/contact/stmgrs.html>. The full text of these documents are available for comment at RevCom for TSP (<http://standards.doe.gov/login.jsp>) accessed from the TSP website.

The following entries were received in February 2008:

- *Guide of Good Practices for Occupational Radiological Protection in Plutonium Facilities* (CH2, December 2006), DOE-STD-1128-98, SAFT-0120; February 6, 2008; Point of Contact: Peter O'Connell, Phone: 301-903-5641 [Deactivation]; and
- *Guide of Good Practices for Occupational Radiation Protection in Uranium Facilities*, DOE-STD-1136-2007, SAFT-0121; February 6, 2008; Point of Contact: Peter O'Connell, Phone: 301-903-5641 [Deactivation].

1.3 DOE Technical Standards in Reaffirmation

No entries were received in February 2008.

1.4 DOE Technical Standards Change Notices

No entries were received in February 2008.

1.5 DOE Technical Standards Published

The following entries were received in February 2008:

- *Radiological Worker Training*, DOE-HDBK-1130-2007, January 15, 2008;
- *General Employee Radiological Training*, DOE-STD-1131-2007, January 16, 2008; and
- *ALARA Training for Technical Support Personnel*, DOE-HDBK-1110-2008, February 20, 2008.

2.0 NON-GOVERNMENT STANDARDS ACTIONS

2.1 American National Standards Institute

American National Standards Institute (ANSI) publishes coordination activities of non-Government standards (NGS) weekly in ANSI Standards Action. Recent electronic copies are available on the ANSI Web Site at: http://www.ansi.org/news_publications/periodicals/standards_action/standards_action.aspx?menuid=7.

Refer to ANSI Standards Action for the complete list of changes and new publications, standards developing organizations, and information about submitting comments. Electronic delivery of selected documents is available through ANSI at: <http://webstore.ansi.org/ansidocstore/default.asp>.

ANSI also lists standards actions on new and revised American National Standards and International Standards Organization (ISO) Standards.

2.2 American Society of Mechanical Engineers (ASME)

ASME lists recently published standards on the ASME web site at: <http://catalog.asme.org/home.cfm?Category=CS>. Refer to the ASME web site for the complete list of changes and new publications, standards developing organizations, and information about submitting comments.

ASME maintains monthly updates of drafted new standards as well as revised drafts of current standards, to meet new requirements at: <http://cstools.asme.org/csconnect/PublicReviewpage.cfm>.

A respective "Comment Period End Date" follows each listed document.

2.3 ASTM International

The listing of approved ASTM standards actions during February 2008 is accessible through a new "RSS News Feed" feature being implemented by ASTM. You can access this feature by clicking on the "RSS" button on the ASTM web site <http://www.astm.org/>.

2.4 American Nuclear Society (ANS)

The ANS "What's New" web page at <http://www.ans.org/standards/new/> lists recently initiated

projects, as well as ANS standards approved in recent years.

2.5 National Fire Protection Association (NFPA)

The January/February 2008 NFPA News lists NFPA standards available for comment, newly proposed standards, newly issued standards, and the call for members on committees.

View it at:

<http://www.nfpa.org/assets/files//PDF/NFPA%20News/nfpnews0208.pdf>. □



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