



The Standards Forum and Standards Actions



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Technical Standards Program Manager's Note

Welcome to the February 2010 edition of the Technical Standards Forum and Standards Actions. We are continuing to update the Technical Standards Program (TSP) and welcome any feedback you may have. One area in which we are making some changes is with the Technical Standards Information System (TSIS) database. Changes include modernization of the TSIS database structure and functionality, and plans for providing customers with web-based access to a variety of standards activity information.

This year's Department of Energy (DOE) submission of the Office of Management and Budget Report on the use of non-government standards and participation in non-government standards activities was provided to the National Institute of Standards and Technology (NIST) on December 16, 2009. The TSP would like to thank all those who cooperated by collecting and submitting this year's data. Once the report is submitted to NIST, we will post it on the TSP webpage.

Included in this edition of the Technical Standards Forum and Standards Actions is an article entitled, *1st Quarter FY10 Standards Activity Summary Report*, by Calvin Hopper, at Oak Ridge National Laboratory. Mr. Hopper has been contributing this running report for publication in the DOE Technical Standards Forum and Standards Actions for over a year. The report contains information regarding both domestic and international nuclear safety standards development activities. □

DOE Technical Standards Program Activities Summary

Technical Standards Activities Summary as of December 1, 2009

Document Status	Description of Status	Number of Documents
In Conversion	Conversion of a DOE technical standard to a national consensus standard is a beneficial process that provides exposure for that document to other public and private sector interests. When a DOE standard is converted, a voluntary-consensus, non-DOE standards developing organization assumes responsibility for it. DOE has no further responsibility for the maintenance of the standard when this occurs.	0
In Preparation	Includes draft DOE technical standards being developed but not yet out for review and comment.	15
Out for Comment	Includes draft DOE technical standards that have been posted for review and comment in the Technical Standards Program (TSP) RevCom system.	11
Published	Includes DOE technical standards that have completed the TSP review/comment and approval process. These approved standards are posted on the TSP webpage for use.	3

Five-Year Review Status

Document Status	Description of Status	Proposed/In Progress
Revision	A revision occurs when a DOE technical standard requires technical changes or editorial changes in excess of 25% of its content.	4 / 3
Reaffirmation	A reaffirmation occurs when making no changes to a DOE technical standard at its 5-year review.	1 / 19
Cancellations	Cancellation occurs when a DOE technical standard no longer serves a purpose to DOE as determined by the Office of Primary Interest (OPI) and subsequent TSP RevCom review.	6 / 0

1st Quarter FY10 Standards Activity Summary Report

By Calvin Hopper, Oak Ridge National Laboratory, TN

This report provides information and some insights into domestic and international nuclear safety standards development activities.

Standards that could have current or immediate potential interests to DOE regarding nuclear facility safety are provided. Public comment periods for proposed or new standards are typically 30 days. Therefore, persons wishing to monitor standards activities on a timelier basis should go to the ***ANSI Standards Action*** weekly publication. Additional information is extracted from the International Organization for Standardization (ISO) and the International Electrotechnical Commission (IEC) websites:

<http://www.iso.org/iso/home.htm>; and <http://www.iec.ch/>.

American Nuclear Society (ANS) Standards Activities

Project Initiation Notification System (PINS) for Proposed ANS Standards

Before work on a draft standard can be developed or reaffirmed, a PINS form must be approved and submitted to ANSI. The following projects have completed a PINS form and are in the development or reaffirmation process.

- ANS 54.1-201x, *Nuclear Safety Criteria and Design Process for Liquid-Metal-Cooled Nuclear Power Plants* (new standard).
- ANS 19.3-201x, *Steady-State Neutronics Methods for Power-Reactor Analysis* (revision of ANSI/ANS 19.3-2005).

ANS New or Reaffirmed Standards

- ANSI/ANS 14.1-2004 (R2009), *Operation of Fast Pulse Reactors* (reaffirmation of ANSI/ANS 14.1-2004): 10/27/2009.
- ANS 15.11-2009, *Radiation Protection at Research Reactors* (revision of ANSI/ANS 15.11-1993 (R2004)): 10/8/2009.

New Standard Available for Comment

- ANSI/ANS 40.37-2009, *Mobile Low-Level Radioactive Waste Processing Systems* (new standard): 11/20/2009.

Contact Information

The ANSI/ANS standards designators (e.g., ANS-8.XX) denote which ANSI/ANS Consensus Committee and Subcommittee has purview for the proposal and development of a specific standard. General information about the purchase and participation in the development of standards may be obtained by contacting Ms. Patricia Schroeder, ANS Standards Administrator. Her contact information is:

Patricia Schroeder
Standards Administrator
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Other Domestic Nuclear Standards Activities (PINS Meetings, New Standards & New Standards for Comment)

- **American Society of Mechanical Engineers (ASME)** – Mayra Santiago, Standards Administrator (ansibox@asme.org)
 - Announced Meetings
 - [Committee on Cranes for Nuclear Facilities - Winter 2010 Meeting \(01/27/10 - 1/29/10\)](#)
Jan. 27, 2010 08:00 AM - Jan. 29, 2010 05:00 PM, Houston, Texas, United States.
 - [Board on Nuclear Codes and Standards](#)
Feb. 16, 2010 - Feb. 18, 2010, Tucson, Arizona, United States.
 - Revisions
 - ASME BPVC Section III-200x, *Rules for Construction of Nuclear Facility Components* (revision of ANSI/ASME BPVC 2007 Edition) addressing (a) Division 1: Metallic vessels, heat exchangers, storage tanks, piping systems, pumps, valves, core support structures, supports, and similar items; (b) Division 2: Concrete containment vessels; and (c) Division 3: Metallic containment systems for storage or transportation of spent nuclear fuel and high-level radioactive materials and waste.
 - ASME NQA-1a-2009, *Quality Assurance Requirements for Nuclear Facility Applications* (addenda to ANSI/ASME NQA-1-2008): 7/20/2009.
 - ASME BPVC Section XI-201x, *Rules for In-service Inspection of Nuclear Power Plant Components* (August 2009 meeting) (revision of ANSI/ASME BPVC 2007 Edition).
- **American Society of Safety Engineers (ASSE)** – Timothy Fisher, Standards Administrator (TFisher@ASSE.Org)
- **ASTM International** – Jeff Richardson, Standards Administrator (jrichard@astm.org)
 - New Work Items
 - [WK26026 - Standard Guide for Evaluation of Materials Used in Extended Service of Interim Spent Nuclear Fuel Dry Storage Systems.](#)
 - [WK26056 - Standard Terminology Relating to Nuclear Materials.](#)
 - [WK26175 - Standard Test Method for the Determination of Total Hydrogen Content of Uranium Oxide Powders and Pellets by Carrier Gas Extraction.](#)
 - [WK26277 - Standard Specification for Uranium Hexafluoride Enriched to Less Than 5% ²³⁵U.](#)
- **Health Physics Society (HPS)** – Nancy Johnson, Standards Administrator (njohnson@burkinc.com)
 - **Newly Approved**
 - ANSI N13.35-2009, *Specifications for the Bottle Manikin Absorption Phantom* (revision of ANSI N13.35-1999): 10/22/2009.

- **IEEE (formerly - Institute of Electrical and Electronics Engineers, Inc.) – PE (Power & Energy) / NPE (Nuclear Power Engineering)** – William (Bill) Ash (w.ash@ieee.org)
 - New Work Items
 - IEEE 603-201x, *Standard Criteria for Safety Systems for Nuclear Power Generating Stations* (new standard).
 - Reaffirmation
 - IEEE 344-2004 (R201x), *Recommended Practice for Seismic Qualification of Class 1E Equipment for Nuclear Power Generating Stations* (reaffirmation of ANSI/IEEE 344-2004).

International Standards

Abbreviations for the progressive development of standards by ISO and IEC include:

PWI – Preliminary work item

NWIP – New work item proposal

WD – Working draft

CD – Committee draft

DIS – Draft international standard

FDIS – Final draft international standard

NP – New Proposal

International Organization for Standardization (ISO)

The updated meeting calendars for the International Organization for Standardization Technical Committee 85, *Nuclear Energy*, ISO TC 85 subcommittees (SC), and their working groups (WG) include:

Subcommittee/ Working Group	Title	Secretariat email	Meeting date/location
TC 85/WG 1	<i>Terminology, definitions, units and symbols</i>	eric.balcaen@afnor.org	TBD
TC 85/WG 3	<i>Dosimetry for radiation processing</i>	eric.balcaen@afnor.org	TBD
TC 85/SC 2 WGs	<i>Radiation protection</i>	laurence.thomas@afnor.org	May 31 – June 4, 2010, Jeju, Republic of Korea
TC 85/SC 5 WGs	<i>Nuclear fuel technology</i>	graham.v.hutson@nnl.co.uk	May 31 – June 4, 2010, Jeju, Republic of Korea

Subcommittee Working Groups and their developed standards may be found at the above SC 2 and SC 5 links in the table. To participate in the ISO meetings/activities it is necessary to be appointed as an ANSI Delegate by the U.S. NTAG Chair, Mr. George Campbell (Ph 707-882-1640, email: cglen@mcn.org).

Recent ISO activities of potential interest to DOE include:

- Approved
 - ISO 13465:2009, *Nuclear energy -- Nuclear fuel technology -- Determination of neptunium in nitric acid solutions by spectrophotometry.*
 - ISO 9463:2009, *Nuclear energy -- Nuclear fuel technology -- Determination of plutonium in nitric acid solutions by spectrophotometry.*
- Proposed Work Items
 - [ISO/NP 15690](#), *Radiation Protection - Best practice for dealing with discrepancies between personal dosimeter systems used in parallel.*
 - A copy of the proposal may be obtained by contacting ANSI's Henrietta Scully via email: hscully@ansi.org.
- Without action, the following CDs will be cancelled July 7, 2010
 - ISO/CD 11665-1 thru -8 on *Measurement of Radon-222 radioactivity in the environment – Air – Parts 1 thru 8.*
- Without action the following DIS, NP, and WD will be cancelled on the date specified.
 - ISO/DIS 26062, *Nuclear technology -- Nuclear fuels -- Procedures for the measurement of elemental impurities in uranium- and plutonium-based materials by inductively coupled plasma mass spectrometry*, September 15, 2010.
 - ISO/DIS 27468, *Nuclear criticality safety -- Burn-up credit in evaluations of systems containing PWR fuels*, May 14, 2010.
 - ISO/DIS 8769, *Reference sources -- Calibration of surface contamination monitors -- Alpha-, beta-, and photon emitters*, December 15, 2009.
 - ISO/NP 12850, *Data assimilation methodology for radioactive inventory assessment of activated waste*, March 22, 2010.
 - ISO/WD 12749-1, *Nuclear energy -- Vocabulary -- Part 1: Radiation protection*, Feb. 4, 2010.

International Electrotechnical Commission (IEC)

Meeting calendars for the IEC Technical Committee 45, *Nuclear instrumentation*, Subcommittee 45A, *Instrumentation and control of nuclear facilities* and their working groups (WG) include:

Subcommittee/ Working Group	Title	Secretariat	Meeting date/location
TC 45	<i>Nuclear instrumentation</i>	Russian Federation	TBD
TC 45/SC 45A	<i>Instrumentation and control of nuclear facilities</i>	France	TBD

Without IEC user id and password no meeting minutes are available from the Sept. 2009/Yokohama, JP joint meetings of TC 45 and TC 45/SC45A.

Technical Committee, Subcommittee, and Working Group contact information and developed standards may be found at the above TC 45 and TC 45/SC45A links. Interested parties who wish to participate in the IEC meetings/activities should contact the ANSI/IEC representative, Mr. Charlie Zegers (212-642-4964).

The following standard has just become available:

- IEC 61500 Ed2.0, *Nuclear power plants – Instrumentation and control important to safety – Data communication in systems performing category A functions*, 10-28-2009. □



Welcome Aboard the TSMC!

By M. Norman Schwartz, Office of Nuclear Safety Policy and 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. TSMs share their ideas for TSP improvements and discuss lessons learned through monthly Technical Standards Managers Committee (TSMC) conference calls. 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 TSMC. A complete list of TSMs can be found at:

<http://www.hss.energy.gov/nuclearsafety/ns/techstds/contact/stdmgrs.html>.

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STANDARDS ACTIONS

1.0 DOE STANDARDS ACTIONS

The DOE TSP publishes Standards Actions information on a monthly basis to provide DOE headquarters and field elements with current information on DOE and select non-government standards activities.

The complete list of all DOE Technical Standards projects and their status is available on:

www.hss.energy.gov/nuclearsafety/ns/techstds/.

To access these standards, go to the TSP 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:

- SAFT-0130, DOE-STD-1158-2002, *Self-Assessment Standard for DOE Contractor Criticality Safety Programs*, 07/06/2009, Point of Contact: Jerry Hicks, 505-845-6287.
- TRNG-0073, DOE-STD-1151-2002, *Facility Representative Functional Area Qualification Standard*, 07/15/2009, Point of Contact: James M. Heffner, 202-586-3690.
- TRNG-0074, DOE-STD-1166-2003, *Deactivation and Decommissioning Functional Area Qualification Standard*, 09/28/2009, Point of Contact: Donald N. Mackenzie, 301-903-7426.
- SANS-0007, *Operational, Interoperability, and Security Functions and Features of Wireless Networks*, 11/03/2009, Point of Contact: Lynne Preston, 301-903-2627.

1.2 DOE Technical Standards Posted in RevCom for TSP

Your TSM will initiate requests for specific reviewers to comment on these drafts. The list of TSMs can be found at: www.hss.energy.gov/nuclearsafety/ns/techstds/contact/stdmgrs.html. Full text of these documents are available for comment at

RevCom for TSP and can be accessed from the TSP website (<http://standards.doe.gov/login.jsp>).

The following entries were received:

- SAFT-0129, DOE-STD-3015-2004, *Nuclear Explosive Safety Study Process*, 07/22/2009 (Cancellation), Point of Contact: Fredrick G. Trussell, 202-586-0372.
- SAFT-0130, DOE-STD-1158-2002, *Self-Assessment Standard for DOE Contractor Criticality Safety Programs*, 07/29/2009, Point of Contact: Jerry Hicks, 505-845-6287.
- TRNG-0075, DOE-STD-1174-2003, *Radiation Protection Functional Area Qualification Standard*, 11/24/2009, Point of Contact: Richard L. Huskin, 803-208-3924.

1.3 DOE Technical Standards in Reaffirmation

No entries were received.

1.4 DOE Technical Standards Change Notices

No entries were received.

1.5 DOE Technical Standards Published

The following entries were received:

- SAFT-0079, DOE-STD-1083-2009, *Requesting and Granting Exemptions to Nuclear Safety Rules* (superseding DOE-STD-1083-95), 06/29/2009, Point of Contact: Mary F. Haughey, 301-903-2867.
- SAFT-0125, DOE-STD-2007, *Guide of Good Practices for Occupational Radiological Protection in Uranium Facilities*, 08/11/2009, Point of Contact: Peter V. O'Connell, 301-903-5641.
- TRNG-0068, DOE-STD-1123-2009, *Safeguards and Security General Technical Base Qualification Standard*, 08/12/2009, Point of Contact: Debra K. McNeilly, 202-586-7890.

STANDARDS ACTIONS

2.0 NON-GOVERNMENT STANDARDS ACTIONS

2.1 American National Standards Institute (ANSI)

ANSI publishes coordination activities of non-Government standards 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/default.aspx>.

ANSI also lists standards actions on new and revised American National Standards and 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 new draft 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 through January 2010 is made available through the "RSS News Feed" feature. 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 and February 2010 editions of NFPA News are now available and list NFPA standards available for comment, newly proposed standards, newly issued standards, and the call for members on committees. View these editions at:

- <http://www.nfpa.org/assets/files/PDF/NFPA%20News/NFPANews0110.pdf>; and
- <http://www.nfpa.org/assets/files/PDF/NFPA%20News/NFPANews0210.pdf>.

STANDARDS ACTIONS



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To update your mailing list and/or e-mail addresses, please e-mail: TechStdPgm@hq.doe.gov or call Norm Schwartz at: 301-903-2996.

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