

Standards Actions

Technical Standards Program Newsletter

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U.S. DEPARTMENT OF
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TECHNICAL STANDARDS ACTIVITIES

Human Performance Improvement to Human and Organizational Performance

The Department of Energy Office of Environment, Health, Safety, and Security published DOE-HDBK-1028-2009, *Human Performance Improvement Handbook Volume 1: Concepts and Principles and its accompanying document*, and *Human Performance Improvement Handbook Volume 2: Human Performance Tools for Individuals, Work Teams, and Management* on June 22, 2009. These volumes became the core reference documents for many users within and outside the DOE complex, including, but not limited to, the Department of Defense, Department of Transportation, Institute of Nuclear Power Operations, nuclear power generation plants, power distribution grid utilities, and medical provider organizations.

The science and methodology applied to the Human Performance Improvement (HPI) program has changed significantly and an update to the Handbooks is warranted. For example, there has been an evolutionary change in viewing safety to a concept now called "Safety-2." The traditional view of safety, called Safety-1, has been defined by the absence of accidents and incidents. This view led to safety management focusing on unsafe system operations rather than safe operations. In contrast, Safety-2 defines safety as the ability to succeed under changing conditions. It incorporates resilience into day-to-day operations. The emphasis on what it does well helps to inform areas for improvement; a systems approach. Neuroscience has also yielded more revolutionary insights into the functions of the human brain that will be reflected in the updated Handbooks.

These updates will help expand the scope of the Department's HPI programs by embracing Human and Organizational Performance (HOP). The Handbooks will form the foundation of HOP programs and the basis for courses to assist individuals, work teams, and management with incorporating organizational factors, job-site conditions, individual behavior, and results into systems thinking. Systems thinking will lead to new perspectives on improving performance and reliability. The determination on the specific updates will be made by the team revising the Handbooks.

The team will be composed of a Federal Project Lead and academic and technical experts. Team members will include subject-matter experts from DOE Management and Operating contractors, and organizations as well as thought leaders outside the DOE complex.

This effort will result in significant revisions to the Handbooks, with an estimated twenty-five percent change to Volume 1 and a fifty percent change to Volume 2. The content and approach to the topics will be based on concepts and practices found helpful in the commercial nuclear power industry, electrical grid and distribution, national laboratories, and those adopted by other sectors. The final, Human and Organizational Performance Handbooks will serve to improve the performance and reliability of organizations for the foreseeable future.

Written by Rizwan Shah, Organizational Culture Advisor, Office of Environmental Protection and ES&H Reporting

Response Negotiation – What Is It and Where Do I Find It?

Project Justification Statement, Review and Response, and Concurrence are phases in the Technical Standards RevCom review process that are familiar to most users. Often forgotten or overlooked is Response Negotiation, the review phase between completion of Comment Response and Concurrence review. *Response Negotiation is not an opportunity to submit more comments on the draft or a chance to submit concurrence/nonconcurrence.* Some users may not fully understand the process or purpose of this phase, so, let us clarify.

Before Response Negotiation, the Preparing Activity (PA) must have submitted responses to all comments and produced a redlined markup showing revisions in response to submitted comments.

In Response Negotiation review, users have access to the PA's comment responses and redlined changes to the draft (in References). The author's comment response options are:

- Accept – revises the text as requested
- Accept in part – accepts the comment but will not revise the text specifically as requested
- Reject – does not revise the draft in response to a comment

When assigned users open Response Negotiation, they find the author's name and contact information (email and phone). The Comment Response Report is available in References, and the redlined draft is the Document for Review (upper right) and is also available in References. Users are asked not to add comments. There is no option for RevCom action or submission.

Successful Response Negotiation can resolve issues that would otherwise generate a nonconcurrence in the next phase of the review. SMEs (through their TSMs) can review responses and revisions to the draft to identify issues that must be resolved before Concurrence review. For example:

- You rejected my comment. I need to understand why and discuss the issue and the possibility of a change to the response.
- The redline shows a revision that is not what I requested. Further revision is needed.
- The redlined revision in response to another organization's comment, challenges my organization's meeting our mission obligations.

To resolve an issue, the PA can:

- Update the comment response and revise the redlined draft accordingly,

- Add or remove text,
- Include text for specific organizations/facilities,
- Define terms more precisely,
- Define acronyms,
- Update online links.

When a given issue cannot be resolved in discussion with the PA, it is moved to organization level for consideration. The final decision is made by senior management.

For the next phase, users are asked to review the updated draft to be submitted for final approval to publish.

For new users, RevCom Help is available online at <https://support.doxcelerate.com/doe-technical-standards/revcom>, where document processing and participant roles are defined.

Information on review phases is available at <https://support.doxcelerate.com/doe-technical-standards/doe-technical-standards-phases>

Written by Patricia Greeson, Director, Support Services, Doxcelerate

DOE Technical Standards Updates

The following is an overview of recent Technical Standards actions for March, April, and May 2022. A complete list of on-going DOE Technical Standards actions can be found on the “Monthly Status Reports” posted on the Technical Standards Program website: www.standards.doe.gov and in the Monthly TSMC Minutes posted on [Organizational Excellence \(energy.gov\)](http://www.energy.gov)

Project Justification Statement (PJS) Posted in RevCom for 15-day Review:

PJS for the Proposed Revision of DOE-STD-1066-2016, *Fire Protection*

POC: Jim Bisker, EHSS 31, Office of Nuclear Safety Basis & Facility, Phone: 301-903-6542

In RevCom for 60 Day Review:

Proposed Revision of DOE-HDBK-1130-2008, *Radiological Worker Training*

POC: John Blaikie, EHSS-11, Office of Health & Safety, Phone: 301-903-8470

Proposed Cancellation of DOE-STD-1107-97 Change Notice 1, *Knowledge, Skills, and Abilities for Key Radiation Protection Positions at DOE Facilities*

POC: John Blaikie, EHSS-11, Office of Health & Safety, Phone: 301-903-8470

Proposed Reaffirmation of DOE-HDBK-1100-2004, *Chemical Process Hazards Analysis*

POC: Maurice Haygood, EHSS-11, Office of Worker Safety and Health Policy, Phone: 301-903-17870

Published:

Reaffirmation of DOE-HDBK 1046-2016, *Temporary Emergency Exposure Limits for Chemicals: Methods and Practice*

POC: David Djikine, NA-41, Office of Emergency Management, Phone: 240-597-6381

DOE- STD-1269-2022, *Air Cleaning Systems in DOE Nuclear Facilities*

DOE-HDBK-1169-2022, *Handbook for Use with DOE-STD-1269-2022*

POC: Patrick Frias, EHSS-31, Office of Nuclear Safety Basis & Facility Design, Phone: 301-903-1774

Upcoming Events and Workshops

ASME 16th International Conference on Energy Sustainability - For a Sustainable Planet

When: July 11-13, 2022

Where: Location, TBD

ASME POWER 2022 Power Conference

Responsible. Reliable. Power for All.

When: July 18-19, 2022

Where: Omni William Penn, Pittsburgh, PA

ANSI Executive Committee (EXCO) Meeting

When: July 20, 2022

Where: Location, TBD

ANSI Board of Standards Review (BSR) Meeting

When: August 4, 2022

Where: ANSI NY or Webex Virtual Meeting

Nuclear Facility and Safety Programs Workshop

“Culture, Quality, and Accountability”

When: August 6-12, 2022

Where: Sheraton Hotel Salt Lake City, Salt Lake City, UT

ANS Utility Working Conference and Vendor Technology Expo (UWC 2022)

When: August 7-10, 2022

Where: JW Marriott Marco Island, Marco Island, FL

ASME IDETC-CIE 2022

International Design Engineering Technical Conferences & Computers and Information in Engineering Conference

When: Conference: August 14-17, 2022

Exhibition: August 15-17, 2022

Where: St. Louis Union Station Hotel, St. Louis, Missouri

ANSI ISO Council (AIC) Meeting

When: September 13, 2022

Where: ANSI DC Headquarters Meeting time TBD

ANS 14th International Conference on Radiation Shielding and 21st Topical Meeting of the Radiation Protection and Shielding Division

When: September 25-29, 2022

Where: Seattle Marriott Waterfront, Seattle, WA

ASME International Pipeline Conference

Collaborating for Sustainability

When: September 26-30, 2022

Where: Hyatt Regency-Telus Convention Centre, Calgary, AB, Canada

ANSI World Standards Week (WSW) 2022

When: October 10-14, 2022

Where: Washington, DC

For more information on the listed meetings or events, please see their organization's website listed below:

<http://www.ans.org/>

<https://www.ansi.org/>

<https://www.nfpa.org/>

<https://www.asme.org>

<https://www.nfpa.org/>

To learn more about the DOE Technical Standards Program or to view
the *Standards Actions* newsletters,
visit the website:
www.standards.doe.gov