

# Standards Actions

Technical Standards Program Newsletter

February 2016



U.S. DEPARTMENT OF

**ENERGY**

OFFICE OF  
NUCLEAR SAFETY

## INSIDE THIS ISSUE

### Technical Standards Activities

- New Technical Standard for Proficiency Testing
- DOE Technical Standards Updates
- Upcoming Meetings and Conferences

### Publishing Organization

Office of Nuclear Safety

Office of Environment,  
Health, Safety and Security

Department of Energy  
1000 Independence Ave., S.W.  
Washington, DC 20585-1290

### Editor-in-Chief

Jeff Feit: 301-903-0471  
jeffrey.feit@hq.doe.gov

### General/Compiling Editor

Kathy Knight: 301-903-4439  
kathy.knight@hq.doe.gov

## TECHNICAL STANDARDS ACTIVITIES

### NEW TECHNICAL STANDARD FOR PROFICIENCY TESTING

#### **New Technical Standard - *Requirements for Proficiency Testing and Evaluation of Environmental Analytical Laboratories***

The Office of Sustainable Environmental Stewardship (AU-21) manages the Analytical Services Program (ASP) to help assure the quality of analytical services across the Department of Energy (DOE) complex. The ASP works to assure DOE managers, workers, and the public that the results acquired from analytical environmental laboratories are accurate, reliable, and defensible, and that the treatment and disposal of DOE low-level radioactive, mixed, and other hazardous waste are accomplished in accordance with all applicable regulations and in a manner protective of human health and the environment. The ASP is a corporate program, servicing all Departmental program line organizations, including the National Nuclear Security Administration.

Ongoing evaluation of laboratory performance is essential not only for laboratories and their customers, but also for regulators, laboratory accreditation bodies, and other organizations that specify quality requirements for laboratories. DOE assesses laboratory performance by utilizing the auditing element of the ASP, the DOE Consolidated Audit Program (DOECAP), and by reviewing the results of proficiency testing (PT) samples which are part of a performance evaluation program (PEP). The primary objective of the PEP is to promote reliability and credibility for the analytical results used in the decision making process, particularly for those decisions affecting the environment, public health, and safety. Each PEP checks for specific analytical proficiencies in radiological, inorganic, and organic analyses. A new technical standard, *Requirements for Proficiency Testing and Evaluation of Environmental Analytical Laboratories*, will provide the requirements of PT samples that meet DOE's expectations for a PEP. In an effective PEP, a PT sample is used to test analytical performance.

(Continued on next page)

## TECHNICAL STANDARDS ACTIVITIES

(Continued from page 1)

Participation in an appropriate PEP is necessary for environmental analytical laboratories to demonstrate compliance with the quality assurance requirements in DOE Order 414.1D, *Quality Assurance*. Participation in an appropriate PEP also demonstrates conformance to the expectations of the *Department of Defense (DoD)/ Department of Energy (DOE) Consolidated Quality Systems Manual (QSM) for Environmental Laboratories, Based on ISO/IEC 17025:2005(E) and The NELAC Institute (TNI) Standards, DoD Quality Systems Manual/DOE Quality Systems for Analytical Services*, dated July 2013, which establishes DOECAP requirements when invoked by a contract between a DOE site office and the commercial laboratory.

Valid and reliable analytical data is essential for public health and safety, regulatory compliance, environmental monitoring, and long-term stewardship. Inaccurate analytical results increase the cost to DOE and the taxpayer as a result of rework, additional sampling, or legal costs. A new technical standard is being developed and will define the requirements of PT samples that are analyzed as part of a PEP and are used for evaluating laboratory performance of contracted analytical services that provide DOE with data that will be used in the decision making process. Participation in a PEP will provide DOE officials and oversight personnel that contract with DOE field on-site or off-site commercial, State and/or university environmental analytical laboratories confidence that quality assurance requirements are met; laboratory results are accurate, defensible, and of known and documented quality; and laboratories are held accountable for their performance.

The technical standard will apply to programs and activities involving the production, management, and use of environmental analytical data supporting DOE operations, including Government-owned/Government-operated facilities, Government-owned/Contractor-operated facilities, and formerly-used DOE sites. Any environmental analytical laboratory doing work for DOE, either directly or indirectly, or any international laboratory in support of National interests, will be required to participate in a PEP that meets the requirements of this technical standard.

For more information please contact Debbie Rosano, Office of Sustainable Environmental Stewardship (AU-21) at 301-903-8177 or [Debbie.Rosano@hq.doe.gov](mailto:Debbie.Rosano@hq.doe.gov).

## DOE TECHNICAL STANDARDS UPDATES

The following is an overview of recent Technical Standards actions. A complete list of on-going DOE Technical Standards actions can be found on the "Monthly Status Reports" posted on the Technical Standards Program Web site: [energy.gov/ehss/monthly-status-reports](http://energy.gov/ehss/monthly-status-reports).

### Technical Standards New Project Registrations

- **DOE-HDBK-XXXX-YR, *DOE Motor Vehicle Management Handbook***  
(Proposed New Document)  
**Contact:** Dante Tan **Phone:** 202-287-1364  
Office of Management  
Office of Asset Management (MA-50)
- **DOE-HDBK-1158-2010, *Self-Assessment Standard for DOE Criticality Safety Programs***  
(Proposed Revision)  
**Contact:** Larry Berg **Phone:** 301-903-0125  
National Nuclear Security Administration (NA-512)
- **DOE-STD-1063-2011, *Facility Representatives***  
(Proposed Revision)  
**Contact:** James Heffner **Phone:** 202-586-3690  
Office of Nuclear Facility Safety Programs (AU-32)

(Continued on next page)

## TECHNICAL STANDARDS ACTIVITIES

(Continued from page 2)

### Project Justification Statements Posted in RevCom for 15-day Review

- **DOE-STD-XXXX-YR, *DOE Technical Standard for Radioactive Waste Management Disposal***  
(Proposed New Document)  
**Contact:** David Levenstein **Phone:** 301-903-6500  
Office of Environmental Management  
Office of Environmental Compliance (EM-11)
- **DOE-STD-5506-2007, *Preparation of Safety Basis Documents for Transuranic Waste Facilities***  
(Proposed Revision)  
**Contact:** Robert Nelson **Phone:** 509-376-8800  
Office of Environmental Management  
Office of Safety Management (EM-41)

### Technical Standards Posted in RevCom for 60-day Review

- **DOE-HDBK-XXXX-YR, *Suspect/Counterfeit Items Resource Handbook*** (Proposed New Document)  
**Contact:** Duli Agarwal **Phone:** 301-903-3919  
Office of Quality Assurance (AU-33)
- **DOE-HDBK-XXXX-YR, *Classified Matter Protection and Control Handbook*** (Proposed New Document)  
**Contact:** Linda Ruhnnow **Phone:** 301-903-2661  
Office of Security Policy (AU-51)
- **DOE-STD-XXXX-YR, *Analysis and Evaluation of the Health and Reliability of the Intrusion Detection and Assessment System*** (Proposed New Document)  
**Contact:** Mister McDonnell **Phone:** 301-903-0889  
Office of Security Policy (AU-51)
- **DOE-HDBK-1046-YR, *Temporary Emergency Exposure Limits for Chemicals: Methods & Practices***  
(Proposed Revision)  
**Contact:** David Freshwater **Phone:** 301-903-3988  
National Nuclear Security Administration  
Office of Emergency Management Implementation and Policy (NA-41)
- **DOE-STD-1189-YR, *Integration of Safety into the Design Process*** (Proposed Revision)  
**Contact:** Pranab Guha **Phone:** 301-903-7089  
Office of Nuclear Safety Basis and Facility Design (AU-31)
- **DOE-STD-3025-2007, *Quality Assurance Inspection and Testing of HEPA Filters*** (Proposed Revision)  
**Contact:** Sonya Barnett **Phone:** 301-903-2068  
Office of Quality Assurance (AU-33)

### Recently Approved Standards

- **DOE-HDBK-3012-2015, *Team Leader's Good Practices for Readiness Reviews***  
**Contact:** James Heffner **Phone:** 202-586-3690  
Office of Nuclear Facility Safety Programs (AU-32)
- **DOE-STD-3011-2016, *Preparation of Documented Safety Analysis for Interim Operations at DOE Nuclear Facilities***  
**Contact:** Chris Chaves **Phone:** 301-903-5999  
Office of Nuclear Safety Basis and Facility Design (AU-31)

## TECHNICAL STANDARDS ACTIVITIES

### UPCOMING MEETINGS & CONFERENCES

#### Energy Facility Contractors Group 2016 Nuclear & Facility Safety Annual Workshop

**When:** February 29 – March 4, 2016  
**Where:** Albuquerque, NM

#### Energy Facility Contractors Group Worker Safety & Health Subgroup Operational Meeting

**When:** March 14-16, 2016  
**Where:** Washington, DC

#### 24th Annual ISO 9000 World Conference

**When:** March 21-22, 2016  
**Where:** Orlando, FL

#### American Society of Mechanical Engineers Nuclear Quality Assurance – Spring 2016 Meeting

**When:** April 4-7, 2016  
**Where:** Pittsburgh, PA

#### American Concrete Industry Spring 2016 Concrete Convention & Exposition: *Brewing Concrete*

**When:** April 17-21, 2016  
**Where:** Milwaukee, WI

#### Energy Facility Contractors Group Integrated Safety Management & Quality Assurance Spring Meeting

**When:** April 25-28, 2016  
**Where:** Argonne National Laboratory, IL

#### 2016 DOE Nuclear & Facility Safety Programs Workshop

**When:** May 2-6, 2016  
**Where:** Las Vegas, NV

#### Energy Facility Contractors Group Annual Meeting General Session

**When:** June 8, 2016  
**Where:** Washington, DC

#### 2016 American Nuclear Society Annual Meeting: *“Nuclear Power: Leading the Supply of Clean, Carbon Free Energy”*

**When:** June 12-16, 2016  
**Where:** New Orleans, LA

#### National Fire Protection Association Conference & Expo 2016

**When:** June 13-16, 2016  
**Where:** Las Vegas, NV

#### Energy Facility Contractors Group Electrical Safety Workshop

**When:** July 18-22, 2016  
**Where:** Fermilab, IL

#### Energy Facility Contractors Group 2016 Nuclear & Facility Safety Workshop: *Solutions in Nuclear Safety*

**When:** August 6-8 (training) August 9-12, 2016  
**Where:** Argonne National Laboratory, IL

To learn more about the DOE Technical Standards Program or  
to view the *Standards Actions* newsletters,  
visit the Web site:

<http://energy.gov/ehss/services/nuclear-safety/departments-energy-technical-standards-program>