



Radiological Effluents and Environmental Workshop



June 22-25, 2026 | www.nei.org/reew

Monday, June 22

Training Session Registrants ONLY

7 a.m.–4:45 p.m. **Training Session Registration**

7–8 a.m. **Continental Breakfast**

8–8:15 a.m. **REEW Welcome**
Gary Huff, Chair
EnergySolutions

8:15–9:45 a.m. **Training Topic #1:
Environmental Dosimetry**
Environmental dosimetry programs are essential to demonstrate compliance with effluent program requirements. This training session will review the fundamentals of environmental dosimetry, current industry practices, and lessons learned from implementing and overseeing monitoring programs. The focus is on the guidance from ANSI/HPS N13.37-2014 and the benefits of implementing this guidance. Participants will gain practical knowledge that can be applied to radiological environmental monitoring and dose assessment activities.

Matt Scannell
Stanford Dosimetry

Erik Merchant
AEP

Gary Huff
Energy Solutions

9:45–10:15 a.m. **Morning Networking Break**

10:15–11:15 a.m. **Training Topic #2A:
Environmental Dosimetry**

Matt Scannell
Stanford Dosimetry

Erik Merchant
AEP

Gary Huff
Energy Solutions



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11:15 a.m.–noon

Training Topic #2B:

Gamma Spectroscopy Intro

Designed for both new and experienced professionals, this introductory session provides a foundation in gamma spectroscopy principles and applications. Attendees will explore the fundamentals of gamma-ray detection, instrumentation, calibration, quality assurance and data interpretation while gaining a better understanding of common challenges encountered in laboratory and field environments. The session will also include bonus training related to troubleshooting common issues with gamma spectroscopy systems.

Ken Embury
ORTEC

Jeff Wetzler
Mirion Technologies

12–1:15 p.m.

Lunch

1:15–3 p.m.

Training Topic #3:

Gamma Spectroscopy

Ken Embury
ORTEC

Jeff Wetzler
Mirion Technologies

3–3:30 p.m.

Afternoon Networking Break

3:30–5 p.m.

Training Topic #4:

Modeling Groundwater Discharges

Understanding groundwater transport pathways is critical to evaluating environmental impacts and supporting regulatory compliance. This session explores approaches for modeling groundwater discharges, interpreting modeling results, and applying those results to environmental monitoring and assessment programs.

Sean Larkin
Haley and Aldrich

Nadia Glucksberg
Haley and Aldrich



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Tuesday, June 23

7 a.m.–4:45 p.m. **Registration**

7–8 a.m. **Continental Breakfast**

8–9:45 a.m. **General Session 1**

8–8:15 a.m. **Welcome and Daily Intro**

Gary Huff, Chair
EnergySolutions

8:15–9:30 a.m. **Keynote Speaker
A Bright Nuclear Future**

As demand for reliable, carbon-free electricity continues to grow, nuclear energy is positioned to play a critical role in meeting future energy needs. This keynote address will explore the opportunities and challenges facing the nuclear industry, including advanced reactor deployment, energy security, grid reliability, workforce development, and the innovations helping drive the next phase of nuclear growth.

Aldo Capristo
ZettaJoule

9:30–9:45 a.m. **Presentation of the 2026 Jason Jang Award**

9:45–10:15 a.m. **Morning Networking Break**
Hosted by Nuclear Suppliers Association

10:15–Noon. **General Session 2**

10:15–10:45 a.m. **NEI Update**

Hear the latest updates on industry initiatives, regulatory activities, and policy developments affecting radiological effluents and environmental programs. This session will provide an overview of current priorities, emerging issues, and ongoing efforts supporting environmental stewardship across the nuclear industry.

Micheal Smith
Nuclear Energy Institute



10:45–11:15 a.m.

INPO CY Performance and Trends

This session provides an overview of recent industry performance trends, operating experience, and areas of focus related to radiological effluents and environmental monitoring programs. Attendees will gain insights into lessons learned, performance indicators, and opportunities to strengthen program effectiveness and operational excellence.

Tom Edwards
INPO

11:15 a.m.–Noon

ANI Update

Gain an update on emerging trends, risk considerations, and industry developments relevant to radiological environmental programs. This presentation will highlight issues impacting nuclear facilities and provide insights into maintaining strong environmental protection and risk management practices.

Marcia Anderson
American Nuclear Insurers

Noon.–1:15 p.m.

LUNCH and NSA Vendors

1:15–3:15 p.m.

General Session 3

1:15–1:45 p.m.

X-Energy Effluent Monitoring Program Development

Daniel Strohmeyer
X-Energy

1:45–2:15 p.m.

In-house Creation of XRF Filter Standards

Michelle Cameron
Energy Northwest

2:15–2:45 p.m.

Processing and Discharging Liquid Waste with Temporary Systems

Dan Shannon
Energy Solutions

2:45–3:15 p.m.

“Exotic” Proficiency Test Samples and Calibration Sources

Levan Tkavadze
Eckert & Ziegler



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3:15–3:45 p.m.	Afternoon Networking Break <i>Hosted by Nuclear Suppliers Association</i>
3:45–4:45 p.m.	General Session 4
3:45–4:15 p.m.	Meteorological Data Validation in LUC and ODCM Mark Carroll <i>Structural Integrity</i>
4:15–4:45 p.m.	Site's Responsibility for Meteorological Data Review Josh Mulvey <i>Structural Integrity</i>
4:45 – 5 p.m.	Adjourn
5–6:30 p.m.	NSA Vendor Showcase Reception <i>Hosted by Nuclear Suppliers Association</i>

Wednesday, June 24

7 a.m.–4:45 p.m.	Registration
7–8 a.m.	Continental Breakfast
8–9:45 a.m.	General Session 5
8–8:15 a.m.	Daily Intro Gary Huff, Chair <i>EnergySolutions</i>
8:15–8:45 a.m.	EPRI Radiological Environmental Protection Current Research and Future Vision David Perkins <i>EPRI</i>
8:45–9:15 a.m.	Developing a Site Conceptual Model (SCM) that Incorporates Groundwater Modeling Results for Future Changes to Groundwater Flow Conditions Josh Shmpson GZA GeoEnvironmental, Inc. Eric Newcomb <i>Ameren</i>



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9:15–9:45 a.m.

Scintillation Counter Calibration and Quench Curves

Ashvin Boodhun
Lab Logic

9:45–10:15 a.m.

Morning Networking Break *Hosted by Nuclear Suppliers Association*

10:15–11:45 a.m.

General Session 6

10:15–11:15 a.m.

Developing and Implementing Pre-Operational REMP

With new nuclear builds on the horizon, the industry will need to grapple with the challenges of developing radiological monitoring programs at an unprecedented pace. This presentation will cover the topic of developing pre-operational REMP programs and transitioning to the long-term operational program. This session will be critical for workers involved in planning and maintaining REMP for their facilities.

Matt Darois
Radiation Safety & Control Services, Inc.

11:15–11:45 a.m.

Residual Radioactivity

Heather Baxter
Energy Solutions

11:45 a.m.–1 p.m.

LUNCH and NSA Vendors

1–3 p.m.

General Session 7

1–2 p.m.

Emerging Nuclear Reactors and their Radiological Signatures

The reactor landscape is expected to change in coming years as advanced reactors become a reality. Join Dr. Pavel Tsvetkov as he provides an overview of emerging reactor technologies discussing unique characteristics and radiological effluent signatures of different design types. This session will provide a framework for understanding the broad range of technologies currently being developed and for thinking through development of the effluent and environmental programs required to bring these technologies into reality.

Pavel Tsvetkov
Texas A&M University

2–2:30 p.m.

Potassium Hydroxide (KOH) for Western-design PWR Primary System pH Control

David Perkins
EPRI



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2:30–3 p.m.

Sentinel Sample Management Overview

Jennifer Rogers
PTI Systems

Carl Beaujon
PTI Systems

3–3:30 p.m.

Afternoon Networking Break
Hosted by Nuclear Suppliers Association

3:30–5 p.m.

General Session 8

3:30–4:45 p.m.

WORKSHOP PERIOD (NEI 07-07 and Regulatory Update)

This interactive workshop will cover proposed updates to NEI 07-07 guidance and recent regulatory developments affecting radiological effluent and environmental monitoring programs. Participants will have the opportunity to discuss implementation challenges, share lessons learned, engage in peer discussions on current industry issues, and propose changes that will inform the process of developing new guidance.

Micheal Smith
Nuclear Energy Institute

Erik Merchant
AEP

Gary Huff
Energy Solutions

4:45–5 p.m.

Adjourn

5–6:30 p.m.

NSA Vendor Showcase Reception and Prize Drawing
Hosted by Nuclear Suppliers Association



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Thursday, June 25

Closed Door Benchmarking Day (Industry Members Only)

7 a.m.–11 a.m.

Registration

7–8 a.m.

Continental Breakfast (All Attendees)

8–9:45 a.m.

**Closed Door Benchmarking
(Industry Members Only)**

Thursday morning is dedicated to open discussion and benchmarking for licensee participants. These sessions provide a comfortable environment for asking questions and discussing topics that are of special interest to the participants. Looking for feedback on changes you are proposing? Have something you think could be an issue but aren't sure who to ask? Stumped about how to solve a unique problem at your site? These benchmarking sessions are invaluable for connecting participants and facilitating information sharing.

8–8:15 a.m.

Closed Door Session Intro

Gary Huff, Chair
EnergySolutions

8:15–9:45 a.m.

Industry Benchmarking Session #1

Random Groups

9:45–10:15 a.m.

Morning Networking Break
Hosted by Nuclear Suppliers Association

10:15 a.m.–noon.

Industry Benchmarking Session #2

Focus Groups