

USEPA/PADEP UPDATES AND NORM/TENORM RADIATION SAFETY TRAINING MARCH 1, 2022

Naturally occurring radioactive material (NORM) is present in soils, rocks and other undisturbed materials. During drilling, well development, and production activities, the natural rock formation materials are brought to the surface, resulting in NORM being classified as technologically enhanced, or TENORM, under Pennsylvania DEP regulations (§287.1). Since 2016 federal and state regulations have been updated and new technologies, best practices and protocols have been developed by industry experts.

Join oil and gas industry professionals to gather information on the pertinent topics below and capitalize on the opportunity to pose questions directly to the U.S. EPA, PA DEP and industry experts:

- Radiation basics, and how TENORM is generated from oil and gas development activities
- New industry sampling and analysis protocols, and framework for handling, transporting, landfill allocating, monitoring and disposal requirements
- Federal updates related to radiation safety and the industry
- Updates to Pennsylvania's TENORM study and a review of the New Radiation Technical Guidance Document
- A review of the Radiation Action Plan required for the oil and gas industry to develop when processing drill cuttings onsite

PROGRAM

8:30 am – 9:00 am	Registration and Continental Breakfast
9:00 am – 10:00 am	NORM/TENORM 101 and Industry Best Practices
10:00 am – 11:00 am	USEPA Overview and Regulatory Status
11:00 am – 11:15 am	Break
11:15 am – 12:15 pm	TENORM Study and Updated Radiation Technical Guidance Document
12:15 pm – 1:15 pm	Lunch
1:15 pm – 1:45 pm	Chapter 78a Regulations: Radiation Action Plan
1:45 pm – 2:00 pm	Break
2:00 pm – 2:30 pm	Landfill Allocation, Monitoring and Disposal
2:30 pm – 3:15 pm	Panel Discussion and Q&A

For a complete list of speakers, see reverse page or visit <https://22normtenormtraining.eventbrite.com>

5.5 PROFESSIONAL DEVELOPMENT HOURS AVAILABLE

REGISTER

MSC Member:	\$225
MSC Member Group Rate*:	\$200
Non-Member:	\$300
Non-Member Group Rate*:	\$275

* Receive group rate when registering four or more attendees from one company.

Admission fees are non-refundable. Substitutions are accepted.

<https://22normtenormtraining.eventbrite.com>

LOCATION

Hilton Garden Inn Pittsburgh/Southpointe
1000 Corporate Drive
Canonsburg, PA 15317

A block of rooms has been reserved at the Hilton Garden Inn Pittsburgh/Southpointe under the Marcellus Shale Coalition on a first-come, first-served basis. Please call (724) 743-5000 and reference the Marcellus Shale Coalition to make a reservation.



USEPA/PADEP UPDATES AND NORM/TENORM RADIATION SAFETY TRAINING

DETAILS

8:30 am – 9:00 am	Registration and Continental Breakfast
9:00 am – 10:00 am	NORM/TENORM 101 and Industry Best Practices Alex Lopez, Certified Health Physicist, NORM Practice Lead, Perma-Fix Environmental Services, Inc.
10:00 am – 11:00 am	USEPA Overview and Regulatory Status Philip Egidi, Environmental Scientist, Radiation Protection Division, United States Environmental Protection Agency
11:00 am – 11:15 am	Break
11:15 am – 12:15 pm	TENORM Study and Updated Radiation Technical Guidance Document David J. Allard, CHP, Director, Bureau of Radiation Protection, Pennsylvania Department of Environmental Protection
12:15 pm – 1:15 pm	Lunch
1:15 pm – 1:45 pm	Chapter 78a Regulations: Radiation Action Plan Kurt Klappkowski, Director, Bureau of Oil and Gas Planning and Program Management, Office of Oil and Gas Management, Pennsylvania Department of Environmental Protection
1:45 pm – 2:00 pm	Break
2:00 pm – 2:30 pm	Landfill Allocation, Monitoring and Disposal Michael T. Rind, Director of Operations, Waste Management Energy Services Oil and Gas Solutions
2:30 pm – 3:15 pm	Panel Discussion and Q&A Luke Marsh, Lead EHS Specialist, Coterra Energy Inc. (moderator) David J. Allard, CHP, Director, Bureau of Radiation Protection, Pennsylvania Department of Environmental Protection Jon Dufalla, Environmental Compliance Manager, Range Resources Alex Lopez, CHP, Principal Health Physicist, Perma-Fix Environmental Services Inc. Michael T. Rind, Director of Operations, Waste Management Energy Services Oil and Gas Solutions Benjamin L. Seiber, MPA, Radiation Health Physicist 2, Department of Environmental Protection