

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
12:15 pm - 1:15 pm 1:15 pm - 1:45 pm	Lunch Landfill Allocation, Monitoring and Disposal
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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.eve ntbrite.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.



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DETAILS

8:30 am - 9:00 am Registration and Continental Breakfast

9:00 am - 10:00 am Welcome and Introductions

Robert Petrilli, Vice President, Marcellus Shale Coalition

Loren Anderson, Director, Technical Affairs and Membership, Marcellus

Shale Coalition

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 Landfill Allocation, Monitoring and Disposal

Michael T. Rind, Director of Operations, Waste Management Energy Services Oil

and Gas Solutions

1:45 pm - 2:00 pm Break

2:00 pm - 2:30 pm Chapter 78a Regulations: Radiation Action Plan

Kurt Klapkowski, Director, Bureau of Oil and Gas Planning and Program

Management, Office of Oil and Gas Management, Pennsylvania Department of

Environmental Protection

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

3:15 pm Closing Remarks

Robert Petrilli, Vice President, Marcellus Shale Coalition