

## FRMAC LABORATORY ANALYSIS WORKING GROUP UPDATE

# Lab Analysis Working Group Update

INNOVATE. COLLABORATE. DELIVER.

## Programmatic Improvements and Training Development

- **Preparations for CM-25**
  - CM-25 Dry run drill – Nov 5<sup>th</sup> -6<sup>th</sup> 2024
  - Fly Away Lab Training – Jan 14<sup>th</sup> – 16<sup>th</sup> 2025
  - LA-100 virtual refresher – Feb 18<sup>th</sup> 2025 (contact [ecniels@sandia.gov](mailto:ecniels@sandia.gov) if you are interested)
  - Cross-training with AFRAT laboratory personnel
- **Official retirement of EPA MERL announced by EPA**
  - This leaves a major gap in the nation's ability to respond. How can FAL fill this gap?
- **Relocation of Fly Away Lab gear to ABQ, NM**
- **New iMatic unit for the Fly Away Lab**
  - Radon-compensated alpha/beta detector with automated sample changer (50 sample stack) with diameter <2 inches (smears and lo-vol filters)



## Drill Activities

- **CM-25 (March 14<sup>th</sup> – March 21<sup>st</sup>, 2025)**
  - Participants: All skillsets
- **INL Live radiological drills (June 2025)**
  - Participants: Sample Control Specialists, QA Specialists, and Fly Away Laboratory, Gamma Spectroscopists
- **RAP Regional Drills – Late summer 2025**
  - Participants: Sample Control Specialists, QA Specialists, and Fly Away Laboratory, Gamma Spectroscopists

## Current Joint EPA/FRMAC FEMA-NIRT Projects

- Pre-planned analytical strategies
  - What to do about Sr-89/90?
  - Estimating MDAs for in-situ measurements for mission planning
  - How to verify resuspension factor and weathering factor assumptions with field measurements and samples
  - Estimating MDAs for handheld instruments
  - How to design a campaign to confirm no contamination is present

# Nuclear Incident Response Self-Paced Learning Opportunities



## AS-100: Introduction to Assessment Science

24 ABHP CECs

- 22 module course covering FRMAC Assessment methods for public protection, worker protection, and ingestion pathway **[PNNS-KDXC](#)**

## Turbo FRMAC Advanced Methods

1 ABHP CEC each

- Administration of Potassium Iodide Derived Response Level Calculation **[OMXL-NMBV](#)**
- Analytical Action Level Calculation **[HZAK-EWAX](#)**

## LA-050: Support Laboratory Briefing

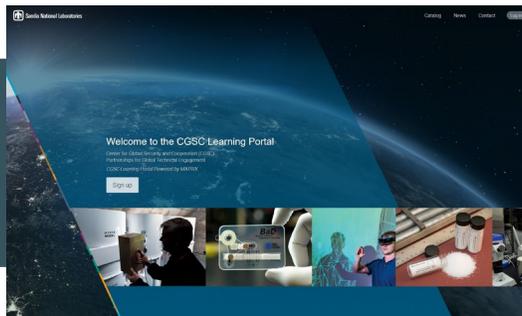
- What labs should expect when called to help FRMAC **[CMOT-EKHS](#)**

## LA-075: Laboratory Data Reporting (Sept 2025)

- Detailed walkdown of data reporting in CBRNResponder

## Gamma Spectroscopy Fundamentals **[ERXF-ZREQ](#)**

- Detector Calibration Methods
- Sample Analysis
- Software Functions
- Mathematical Instrument Calibration
- True Coincidence Summing Corrections
- In-Situ Gamma Spectrometry



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