

State/FRMAC Semi-Annual Webinar

January 31, 2024



This document has been reviewed by a DC/RO and confirmed to be UNCLASSIFIED.

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Date: 02/27/2024

NNSS eDC/RO ID: 23884



This document has been reviewed by a DC/RO and confirmed to be UNCLASSIFIED.

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Date: 02/27/2024

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AGENDA

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- Introduction
- Exercise Updates (DOE)
- FRMAC Working Group Updates (DOE)
- DOE Regional Update (DOE)
- RadResponder Update (DHS)
- National Radiological Emergency Preparedness Conference
- Emergency Preparedness Update (CRCPCD)
- State/Federal Agency Updates (All Partners)
- Open Discussion & Questions
- Closing

EXERCISE UPDATES

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EXERCISE UPDATES

Cobalt Magnet 2025 Exercise Updates

State / FRMAC Semi Annual Conference Call
Jan 31, 2022



FRMAC MONITORING AND SAMPLING WORKING GROUP UPDATE

FRMAC ASSESSMENT WORKING GROUP UPDATE

Assessment Working Group Update

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Assessment Manuals available

Vol 1, Assessment Operations – New volume describing CM/FRMAC Assessment Operations

Vol 2, Assessment Methods – being renumbered for reissue, no technical changes

Vol 3, Assessment Pre-Assessed Scenarios – 7 different types of release scenarios, replaces 2010 version

https://www.nnss.gov/pages/programs/frmac/frmac_documentsmanuals.html

Or just google “FRMAC Manuals”!

Assessment Working Group Update

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Training

- AS-50 is available in recorded form
- AS-100 available in an online self-study (LMS) version
 - <https://snl.matrixlms.com/>
 - Instructions at <https://nirp.sandia.gov> under AS100 Training “FRMAC Training Portal MATRIX Login Instructions”
- Quarterly Continuing Training continues
 - Recordings available at nirp.sandia.gov
 - Will be added to LMS as time allows

Assessment Working Group Update

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Turbo FRMAC New release soon!

- Implemented a new calculation category for calculating International Atomic Energy Agency (IAEA) Operational Intervention Levels (OILs) 1 and 2.
- Added ICRP 88 fetus dose coefficients to the DCFPAK database for the OIL calculation.
- Added a resuspension factor multiplier input to allow users to reflect physical conditions or impacts of mechanical effects.
- Created a new Transfers Factors panel that allows the user to adjust the transfer factors for individual radionuclides.
- Added the option to select which results to include in the Calculation Report wizard.
- Corrected behavior on Occupancy Factor Panel where changes to Hours Partially in Contaminated Zone were not correctly distributed into the appropriate fields (Absent, Sheltered, Unsheltered).
- Fixed issue where manual occupancy factors became un-editable after running a calculation.
- Added export button to main file menu.

<https://nirp.sandia.gov/Software/TurboFRMAC/TurboFRMAC.aspx>

Assessment Working Group Update

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NIRP Website Update

<https://nirp.sandia.gov>

This screenshot shows the home page of the Nuclear Incident Response Program (NIRP) website. The header includes the Sandia National Laboratories logo, a search bar, and navigation links for Home, Software, Training, Help, and Contact Us. A dark blue banner below the header contains the 'Our Mission' statement. The main content area is titled 'Recent Software Updates' and features four software products in a 2x2 grid:

- Turbo FRMAC**: Version: 11.3.1, Last Release: Sep 4, 2023. Description: The Turbo FRMAC (TF) software program is the software implementation of the science and methodologies utilized by the Federal Radiological Monitoring and Assessment Center (FRMAC). These methods are documented in the FRMAC Assessment Manual and are utilized in the event of the intentional or accidental...
- SHARC**: Version: 10.5.0, Last Release: Sep 4, 2023. Description: SHARC (Specialized Hazard Assessment Response Capability) is used to simulate the release of radioactivity from a nuclear weapon via either conventional detonation or by non-explosive techniques. Each scenario is associated with an event that describes when and where the material was released and each event...
- Mixture Manager**: Version: 4.0.0, Last Release: Jun 5, 2023. Description: Mixture Manager (MM) allows users to create and manage radionuclides mixtures for future use across applications.
- Radionuclide Viewer**: Version: 4.4.0, Last Release: Jun 5, 2023. Description: Radionuclide Viewer (RV) is an application for viewing the DCFPAK radiological data from Oakridge National Laboratories.

Each software entry includes a 'LEARN MORE' button.

This screenshot shows the 'Training' page of the NIRP website. The header is consistent with the home page. The main content area is titled 'Training' and displays a grid of training modules:

- Assessment Scientist Continuing Training**: Needs description, Last Updated: Mar 31, 2023. Includes icons for 33, 4, and 0.
- AS300 Training**: Needs description, Last Updated: Mar 31, 2015. Includes icons for 1, 0, and 0.
- AS100 Training**: Needs description, Last Updated: Mar 22, 2021. Includes icons for 5, 0, and 1.
- AS50 Training**: Needs description, Last Updated: Jul 31, 2022. Includes icons for 0, 0, and 2.
- Assessment Work Group**: Needs description, Last Updated: Jul 17, 2019. Includes icons for 5, 0, and 0.

Each training module includes a 'VIEW TRAINING' button with a right-pointing arrow.

Lab Analysis Working Group Update

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Programmatic Improvements

- Updates to Job Aids and Training in the works from summer drill lessons learned
- New LA Manual Vol. 1 final draft will be sent around spring/summer 2024 for comment
- Presentation to be given at NREP 2024 on summer live rad drills
- Working on future FAL development proposal to better support quick turn around analysis and shipping survey needs for CM

Summer 2023 Live Rad Drills

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Far-field photo of bomb pit used during exercise.



RAP teams with mobile backpack systems sweep the deposition field.



RAP personnel frisk out the contamination control hotline after dropping off samples and equipment.

Summer 2023 Live Rad Drills

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RAP personnel drop off equipment and samples at radiological control hotline.



FAL staff analyze a ground deposition sample on an HPGe spectrometer.



Hotline personnel screen a sample from a field team.

Summer 2023 Live Rad Drills

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Simulated outdoor environment staged prior to spray-down of F-18 solution .



Hotline personnel screen equipment and samples out of contamination area, foreground, while RAP personnel remove an air filter from a sampler, background.



Laboratory Analysis staff describe sample control process to TAMU students at sample control area .

Training Development

- Laboratory Data Reporting (LA-075) – September 2024
- Updated training being delivered in Spring to the CM responders
 - Includes use of new mobile hotline check-in application
- Fly Away Lab training to be delivered in the spring
- Gamma Spectroscopist training week to be delivered in the spring.
 - Position will be official in ARMS by the end of FY24 with a minimum responder depth of 6
- CM Lab Analysis to participate in both RAP regional drills as well as the two INL live rad dispersal drills

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

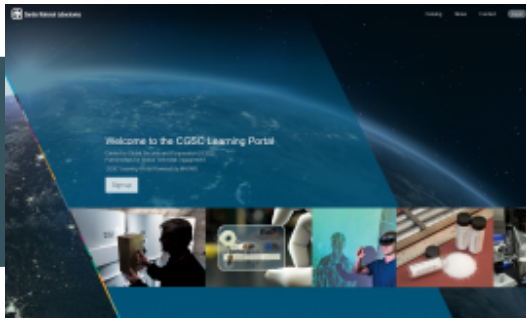
- What labs should expect when called to help FRMAC [CMOT-EKHS](#)

LA-075: Laboratory Data Reporting (Sept 2024)

- Detailed walkdown of data reporting in CBRNResponder

Gamma Spectroscopy Fundamentals [ERXF-ZREQ](#)

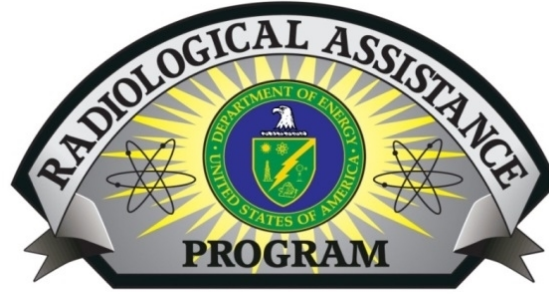
- Detector Calibration Methods
- Sample Analysis
- Software Functions
- Mathematical Instrument Calibration
- True Coincidence Summing Corrections
- In-Situ Gamma Spectrometry



Sandia and partners have developed *free, online* training!
Learn more: <https://snl.matrixlms.com/>

Current Joint EPA/FRMAC FEMA-NIRT Projects

- Ground deposition sample analysis method round robin
 - Round Robin #1 complete, RR#2 underway
- New CBRNResponder mobile sample hotline check-in application (Mar 2024)
 - Streamlined sample check-in process
 - Ability to work in periodic offline or low-bandwidth environments
 - Capability mirrored on website to reduce training burden for offline and online use
- New project to begin: Pre-planned analytical strategies for sampling and analysis



FRMAC Semi-Annual Teleconference

July 2023

Radiological Assistance Program
Regional Updates



Overall Comments

- Reach out to your local RAP Regions and schedule periodic meetings
- Schedule TTXs annually to get to know your States and Regional procedures
- DOE support is always FREE, and doesn't result in a bill to the requesting office
- Call us – we exist to support State and Local agencies faced with rad/nuke responses



Radiological Assistance Program



Region 6: Richland

24-hr Phone: 509-373-3800 / 208-526-1515

RPM: Conrad Gilbert
conrad.gilbert@nnsa.doe.gov
Work: 509-376-8519
Cell: 505-400-3671
Pager: 888-367-7067

ROM: Tricia L. Poland
tricia_l_poland@rl.gov
Work: 509-372-0096
Cell: 509-430-1518

ROM: Kevin Hungate
kevin.hungate@inl.gov
Work: 208-526-2550
Cell: 208-520-5977

Region 5: Chicago

24-hr Phone: 630-252-4800

RPM: Chuck Mansfield
Charles.Mansfield@nnsa.doe.gov
Cell: 240-220-4130
Office: 630-252-2463

ROM: Chad Wester (Acting)
Chad.wester@anl.gov
Cell: 309.333.4702

Region 1: Brookhaven

24-hr Phone: 631-344-2200

RPM: Jody Lupo
jody.lupo@nnsa.doe.gov
Work: 631-344-7978
Cell: 301-366-1756

DRPM: Bryan Walsh
bryan.walsh@nnsa.doe.gov
Work: 631-344-7978
Cell: 240 246-6954

ROM: Donald Ordinario
Dordinario@bnl.gov
Work: 631-344-5868
Cell: 631-740-6234

DOE/NNSA Headquarters

24-hr Phone: 202-586-8100

Kent Gray, RAP Program Manager
kent.gray@nnsa.doe.gov
Cell: 505-974-1040

NSP/NCR: Washington DC

24-hr Phone: 202-586-8100

PM: Lonnie Swindell
robert.swindell@nnsa.doe.gov
Work: 202-586-9067
Pager: 301-206-5993
Cell: 202-255-4877

DPM: Scott Porwick
scott.porwick@nnsa.doe.gov
Work: 202-586-1382
Pager: 301-206-5755
Cell: 202-580-9194

CPM: Jessica McNutt
mcnuttip@nv.doe.gov
Work: 301-817-3415
Cell: 202-536-6341
Pager: 301-206-5768

Region 7: Livermore

24-hr Phone: 925-422-7595

RPM: Heather McAdams
heather.mcadams@nnsa.doe.gov
Work: 925-424-2877
Pager: 888-641-5652
Cell: 925-667-1831

ROM: Tracy Kiellman
kiellman1@inl.gov
Work: 1-925-423-8498
Pager: 1-888-200-3804
Cell: 1-925-525-8983

Region 4: Albuquerque

24-hr Phone: 505-845-4667

RPM: Marc Phipps
john.phipps@nnsa.doe.gov
Work: 505-845-5799
Pager: 888-200-6025
Cell: 505-205-3230

ROM: Kevin Hart
kghart@sandia.gov
Work: 505-844-2630
Pager: 888-200-3535
Cell: 505-269-9056

Region 2: Oak Ridge

24-hr Phone: 865-576-1005

RPM: William Reding
william.reding@nnsa.doe.gov
Work: 865-576-9740
Cell: 240-474-2774

ROM: Jeff Barroso
jeff.barroso@pxy12.doe.gov
Work: 865-241-6380
Pager: 865-231-1066
Cell: 865-414-5907

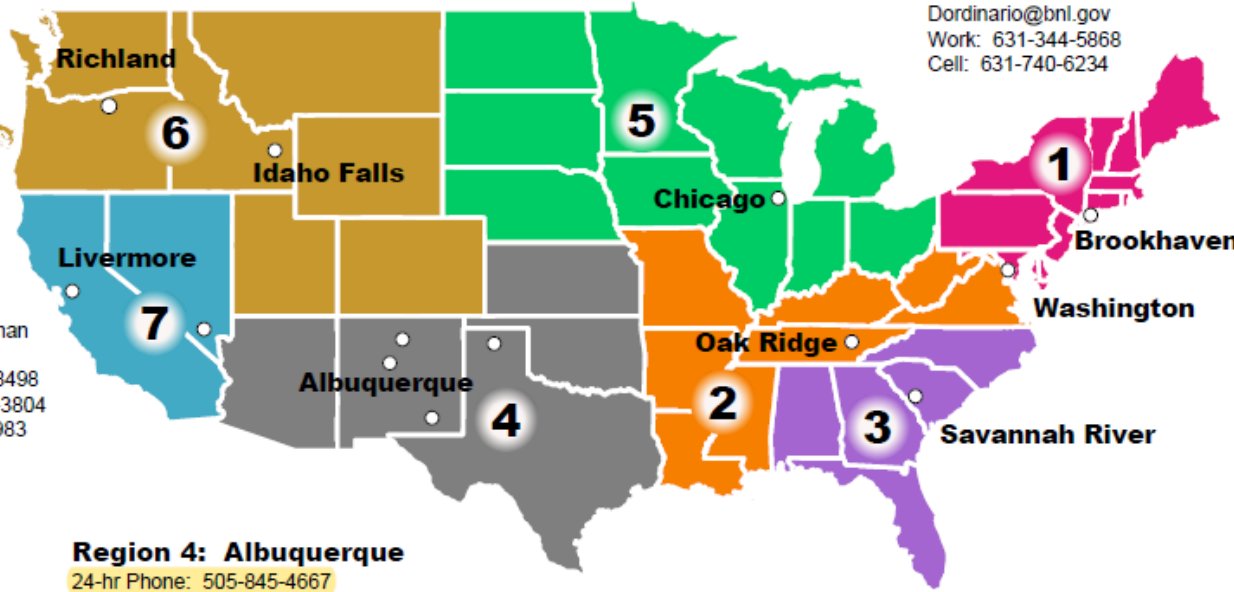
Region 3: Savannah River

24-hr Phone: 803-725-3333

RPM: Christina T. Edwards
christina.edwards@nnsa.srs.gov
Work: 803-952-6613
Cell: 803-507-2703

DRPM: Jeff Galan
jeffrey.galan@nnsa.doe.gov
Work: 803-952-7639
Cell: 240-388-5438

ROM: Trent Edwards
Trenton.edwards@srs.gov
Work: 803-952-9317
Pager: 803-725-7243
PIN #20255
Cell: 803-646-4482



Alaska

Richland

Idaho Falls

Livermore

Albuquerque

Chicago

Oak Ridge

Brookhaven

Washington

Savannah River

CNMI

Hawaii

Guam

American Samoa

U.S. Virgin Islands

Puerto Rico





RadResponder
Network

RadResponder Updates

January 31, 2024

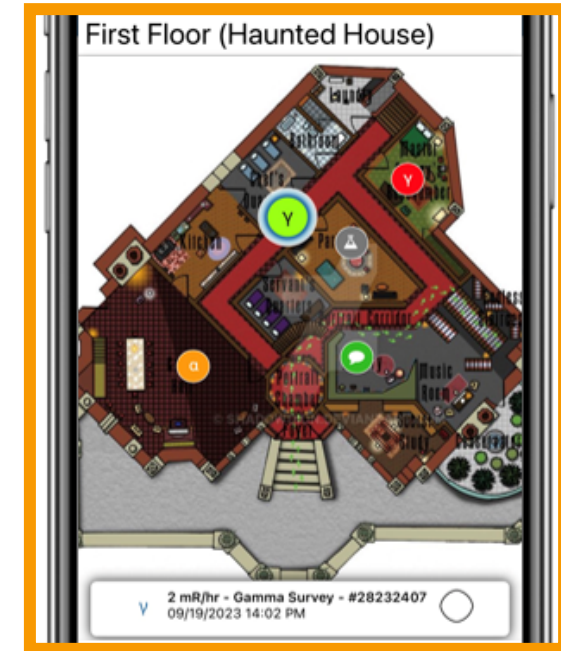
Recent Activities

Major Technical Enhancements:

- View data collected on **floor plans from the mobile event map**
- Integration to allow users to **import VSP files** and visualize them on the Event Map (NIRT Project)
- Mobile sample check-in phase 2 including sample check-in web port


Radiological Data Feeds Refresh

Data Feed Name	Owning Org	Number of Devices	Data in Last 24 Hours?	Data in Last 30 Days?
Regional Hospitals		9	No Devices Received Data in the Last 24 Hours	6 of 9 Devices Received Data in the Last 30 Days
NPP Monitoring		20	No Devices Received Data in the Last 24 Hours	18 of 20 Devices Received Data in the Last 30 Days
Fire Station Monitors		141	All Devices Received Data in the Last 24 Hours	28 of 141 Devices Received Data in the Last 30 Days



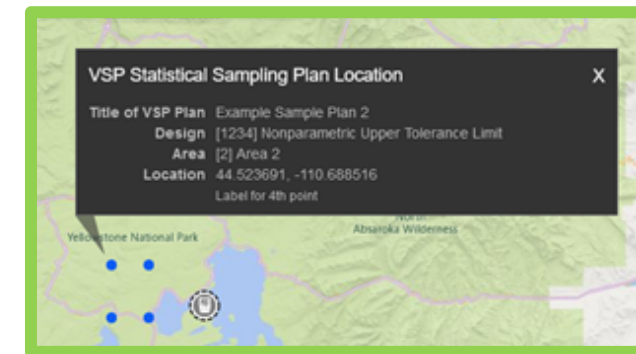
Add Samples

Search by Barcode Search



Scan Barcode

Place the red line over the barcode just like to scan.



Recent Activities

Population Monitoring 2.0: Making Community Reception Centers SimPLER

- Took place in August 2023
- 90 participants from 41 participating organizations
- Drill Objective: Highlight the enhancements made to the population monitoring module in RadResponder by using the CRC SimPLER tool to generate data to then associate with RadResponder events and community reception centers

RadResponder
RADRESPONDER NATIONWIDE DRILL

Population Monitoring 2.0: Making Community Reception Centers SimPLER

DRILL SCHEDULE AND EVENTS:

- PRE-DRILL WEBINAR: AUGUST 11TH
- DRILL EXECUTION: AUGUST 21ST - 25TH
- CLOSING WEBINAR: AUGUST 25TH

SPONSORED BY: FEMA CRCPD CDC

Outreach and Training:

- In-Person Trainings:
 - Washington State
 - DOE RAP 4 + Partners
- Remote Trainings:
 - Delaware
 - EPA Advisory Team
 - Centers for Disease Control and Prevention

Presentations and Conferences:

- NRC Region IV TOP Workshop – February 2023 (virtual)
- National Radiological Emergency Preparedness Conference – March 2023 (Indianapolis, IN)
- CRCPD – May 2023 (Houston, TX)

Special Feature Webinar Topics:

- Responder Tracking
- Event Map Best Practices

Next 6 Months:

Upcoming Outreach and Trainings:

- Tennessee Valley Authority – Feb 2024
- Cobalt Magnet Meeting – Feb 2024
- Texas DSHS – March 2024
- Pittsburgh Area - Feb 2024
- Health Physics Society – July 2024
- NREP – April 2024
- CRCPD – May 2024 Washington and Idaho state/local trainings – July 2023

Technical Enhancements:

- Mobile sample check-in phase 2 including sample check-in web port
- Numerous threshold and alerting enhancements based on EPA requirements
- Better Map view sharing and system level map saved views
- ROSS personnel and management enhancements

RadResponder Nationwide Drill: Upcoming RadResponder Nationwide Drill: Preparedness Through Partnerships

- March 11-15, 2024
- Pre-Drill Webinar March 7



The graphic features a map of the United States with a network of blue and purple nodes connected by lines, representing the RadResponder Network. The text 'RadResponder Nationwide Drill: Preparedness Through Partnerships' is prominently displayed in the center. Below the map, the 'Drill Schedule' is listed: Pre-Drill Webinar: March 7, Drill Execution: March 11-15, and Closing Webinar: March 15. The bottom right corner includes logos for the Department of Energy, FEMA, and NIRT, with the text 'Co-Sponsored by:'.

RadResponder Network

RadResponder Nationwide Drill:

Preparedness Through Partnerships

Drill Schedule:
Pre-Drill Webinar: March 7
Drill Execution: March 11-15
Closing Webinar: March 15

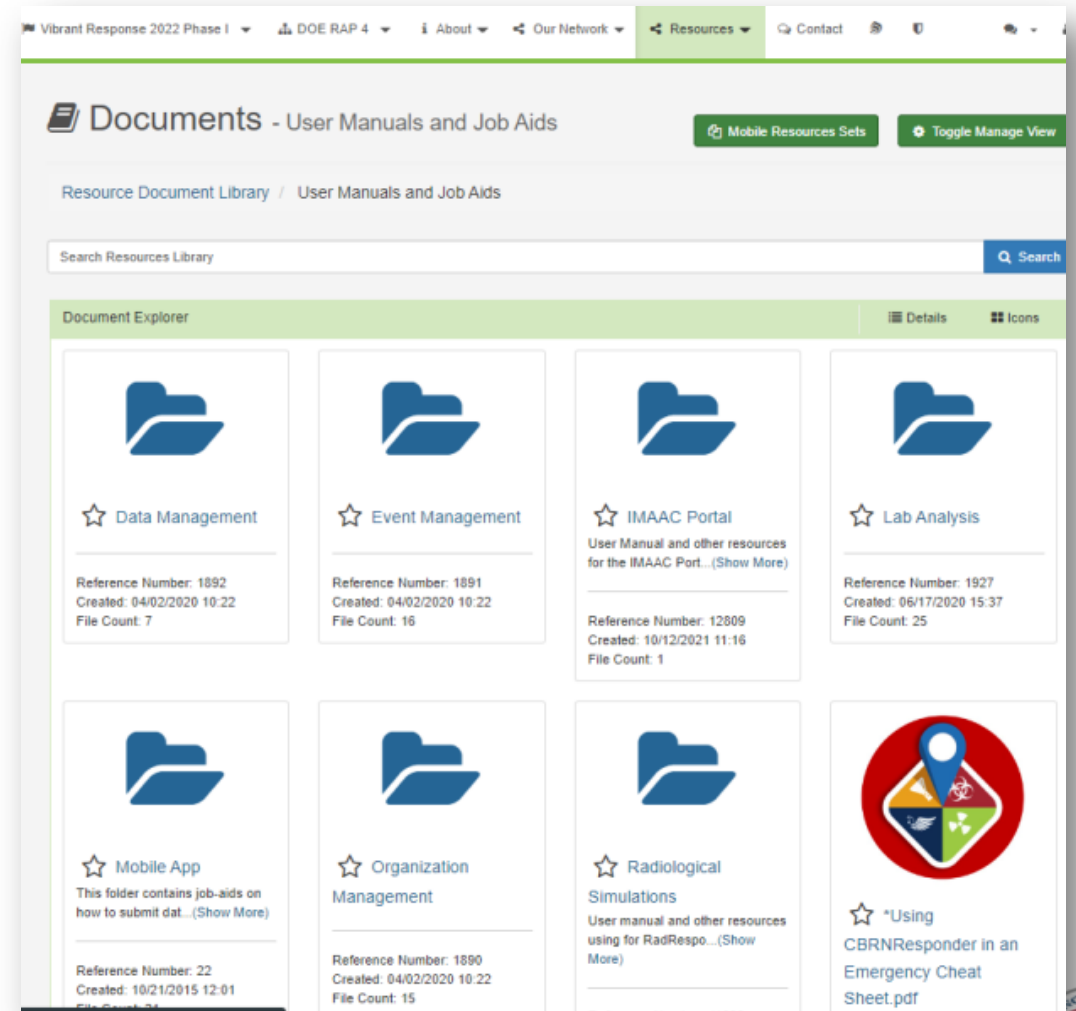
Co-Sponsored by:   

Contacts & Resources

SUPPORT EMAIL

support@cbrnresponder.net

SOCIAL MEDIA



NATIONAL RADIOLOGICAL EMERGENCY PREPAREDNESS CONFERENCE

UPDATE





National Radiological Emergency Preparedness Conference, Inc.

PO Box 166, Landing, NJ 07850 ♦ Ph: 973-960-6170 ♦ FAX: 609-984-7513

www.nationalrep.org

34th Annual Conference Dallas, Texas

April 29 – May 2, 2024

Hotel:

Hilton Anatole Dallas

2201 N Stemmons Fwy
Dallas, TX 75207 (USA)

Airport:

Dallas Fort Worth International Airport (DFW)

2400 Aviation Dr
DFW Airport, TX 75261 (USA)



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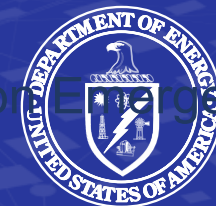
CRCPD Update

Ruth E. McBurney, CHP
Executive Director, CRCPD

Conference of Radiation
Control Program Directors, Inc. (CRCPD)

Ken Evans

Chair, Committee on Emergency Response
Planning



FRMAC PARTNER UPDATES

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STATE AND FEDERAL AGENCY UPDATES



2024

- Columbia
 - 07-08 FEB: Dress Rehearsal
 - 27-28 MAR: Columbia
- Cooper
 - 24 SEP: IPX
- Diablo Canyon
 - 22-23 MAY: Outreach/Training
 - 26-28 JUN: Dress Rehearsal
 - 31 JUL-02 AUG: IPX
- Iowa
 - 17-18 JUL: IPX/RRR training workshop
- Vogtle
 - 31 JAN-01 FEB: Outreach
 - 19-20 MAR: Dress Rehearsal
 - 21-22 MAY: IPX

2025

- Browns Ferry
 - 24-28 JUN: IPX
- Callaway
 - 16-17 SEP: IPX
- Palo Verde
 - 29 JAN: Dress Rehearsal
 - 04-05 MAR: IPX
- Point Beach
 - 08-12 SEP: IPX
- Surry
 - 21-25 JUL: IPX

OPEN DISCUSSION AND QUESTIONS

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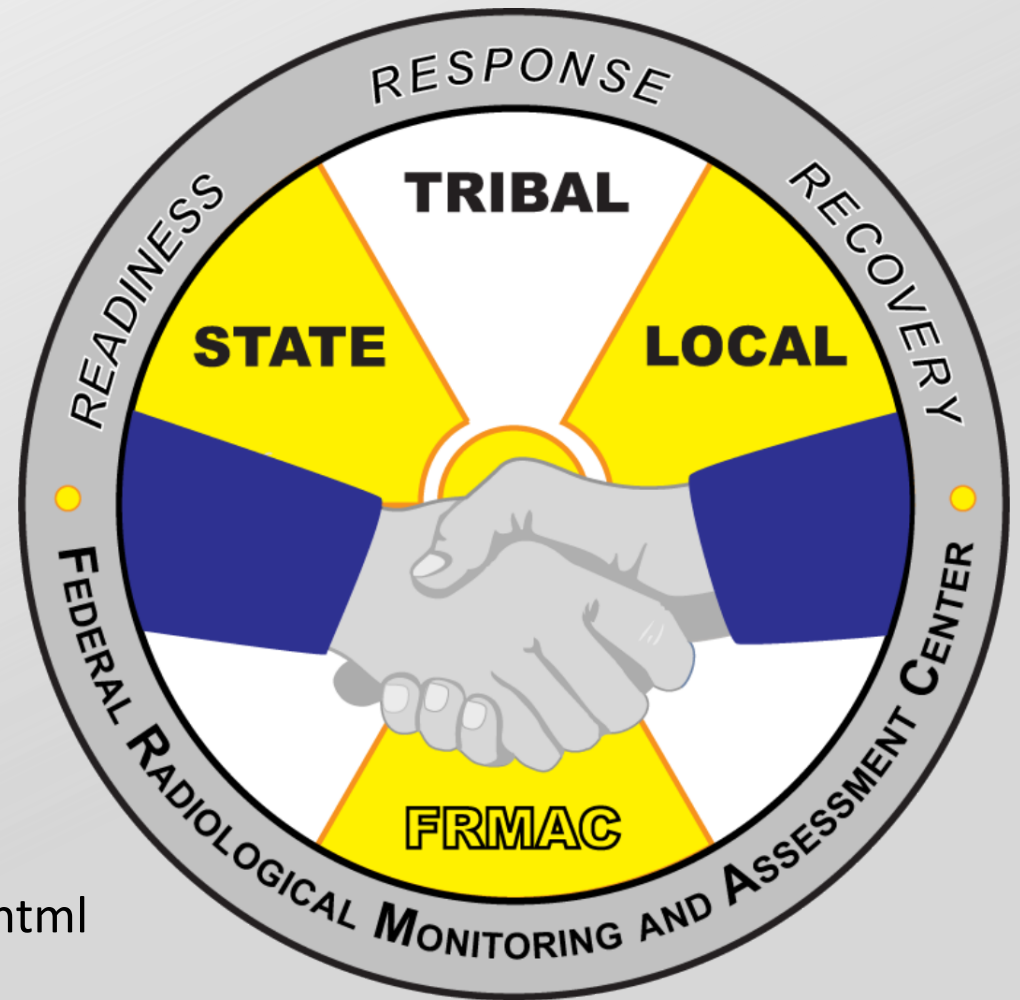


Next Webinar

Wednesday, July 24, 2024

Visit the site below for additional content

<https://www.nnss.gov/pages/programs/FRMAC/FRMAC.html>



“Scientifically Informed, Operationally Focused.”

CTCP Website:

<https://nnsa.energy.gov/aboutus/ourprograms/ctcp>

CTCP Office Phone: 202-586-1734

IN CASE OF EMERGENCY: 202-586-8100