

State/FRMAC Semi-Annual Webinar

January 28, 2026

This document has been reviewed by a DC/RO and has been determined to be UNCLASSIFIED, not UCN, and contains no CUI based on current classification guidance. This review does not constitute a review for CUI outside of classification guidance.

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Date: 2/3/2026

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Peace Through Atomic Strength



U.S. DEPARTMENT
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AGENDA



- Introduction
- FRMAC Working Group Updates
- Exercise Updates
- DOE Regional Update
- National Radiological Emergency Preparedness Conference
- Emergency Preparedness Update
- State/Federal Agency Updates
- Open Discussion & Questions
- Closing



Monitoring Working Group Updates



2025 Goals

- Review existing documentation (one more year!)
 - Review M&S Documentation (group action by August)
 - Review manuals and provide minor edits (sent to Working Group in December 2025)
 - Review and update operator aids
 - Added new aid on printing barcodes in CBRNResponder and updated the Sample Control Form. This is on the website.
 - Updating operator aids as necessary for manual revision (in situ)
 - Need to update applicable Monitoring Division Training (Gwin)
 - Updated all training to remove old terms. Drafts done by December 2025.
- Socialize the standardization of RR settings/inputs (like equipment) among CMRT and RAP assets.
 - Document exists for configuration and instrument settings (Cerefice/Gwin). Sent out to RAP assets.

Monitoring Working Group Update



2026 Goals

- Finalize the manual revisions and trainings.



Assessment Working Group Update



Assessment Manuals available

Vol 1, Assessment Operations – CM/FRMAC Assessment Operations

Vol 2, Assessment Methods – Technical Methods

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”!

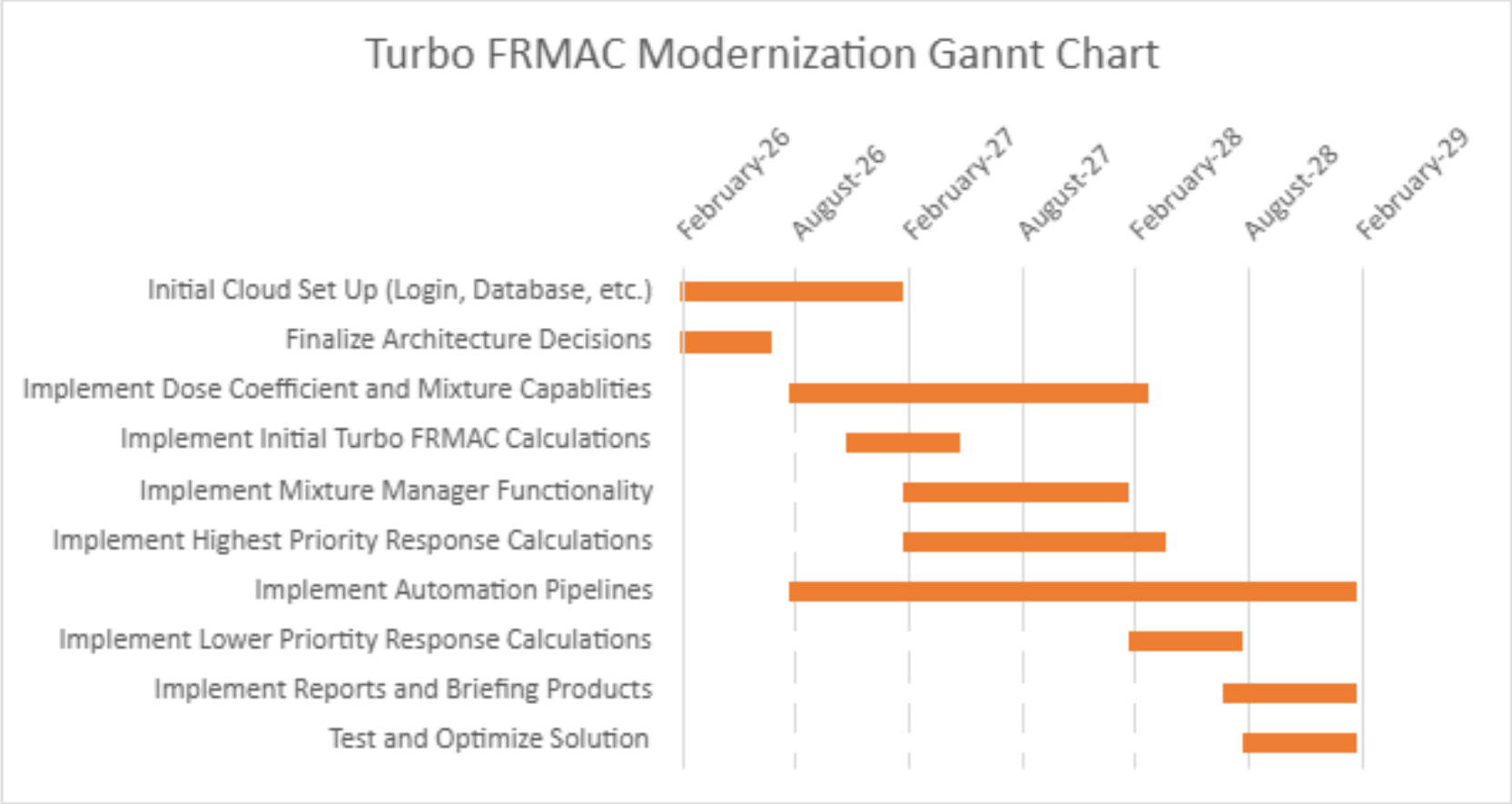
Training

- 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

Turbo FRMAC Modernization

- Transforming Turbo FRMAC from a stand-alone desktop application to a cloud-based tool.
- Funded by the Technology Modernization Fund, subsidiary of the General Services Administration (GSA)
- 3 year effort
- Two general high-level goals:
 - Phase 1 – develop a tool that meets the minimum performance requirements associated with the current baseline
 - Phase 2 – improve automated interoperability with other response tools

Turbo FRMAC Modernization



Assessment Working Group Update



NIRP Website Update

<https://nirp.sandia.gov>

The screenshot shows the home page of the Nuclear Incident Response Program (NIRP) website. The header includes the Sandia National Laboratories logo and a search bar. The main navigation bar lists Home, Software, Training, Help, and Contact Us. The "Our Mission" section states that the NIRP program provides research and technical solutions, expert analysis, and highly trained emergency response professionals to support the federal government's response to an accident or act of terrorism involving radiological, chemical, or biological material. The "Recent Software Updates" section features four cards:

- 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.

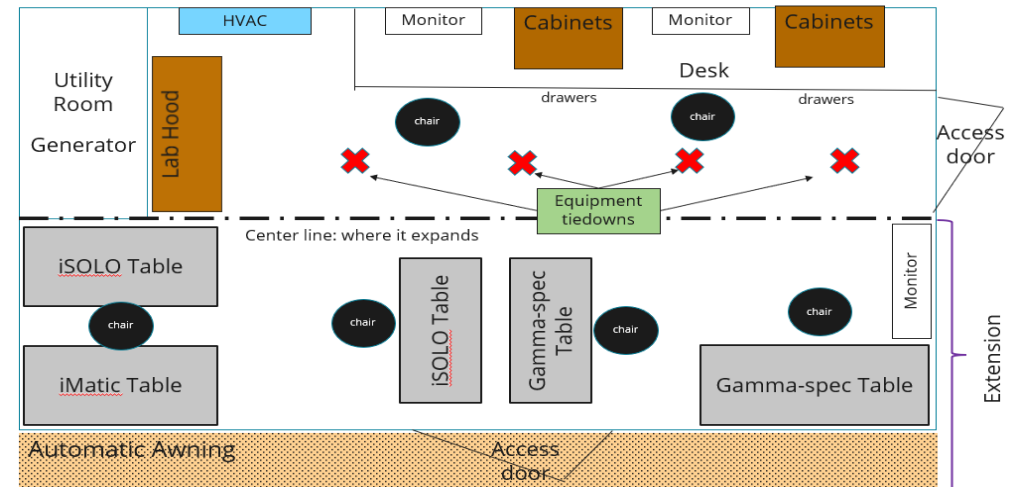
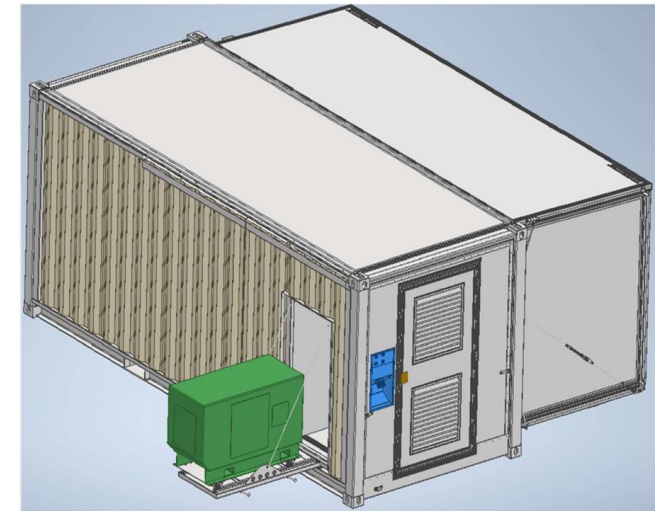
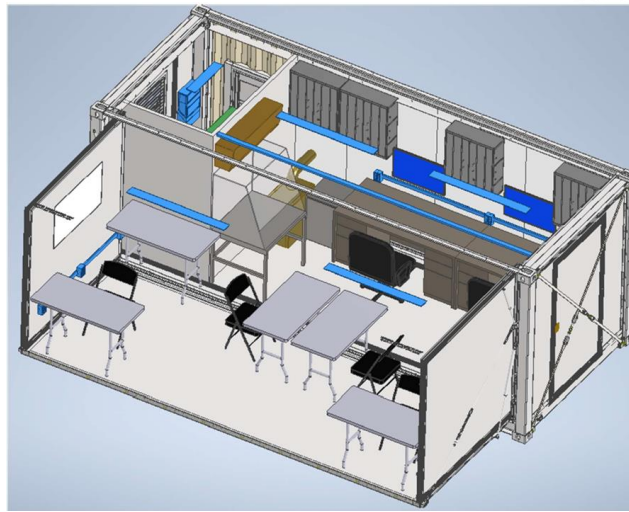
The screenshot shows the Training page of the NIRP website. The header and navigation bar are consistent with the home page. The "Training" section displays a grid of training modules:

- Assessment Scientist Continuing Training**: Needs description, Last Updated: Mar 31, 2023. View Training -->
- AS300 Training**: Needs description, Last Updated: Mar 31, 2015. View Training -->
- AS100 Training**: Needs description, Last Updated: Mar 22, 2021. View Training -->
- AS50 Training**: Needs description, Last Updated: Jul 31, 2022. View Training -->
- Assessment Work Group**: Needs description, Last Updated: Jul 17, 2019. View Training -->



Lab Analysis Working Group Update

- SEABOX: Builds custom CONEXEs
- Full field laboratory set-up
 - 3 gamma-spec detectors
 - 2-3 gross alpha/beta counters
 - HVAC
 - Lab hood for sample prep
 - Equipment storage/shipment
 - Power generator
 - Desks/tables/chairs
 - Secure access



Workspace/utility layout

Lab Analysis Working Group Update

- Bison lifts: lifts/lowers lab in the field
- Contract hot shot truck for rapid, on-call deployment
- Permanently set up at SNL RAPROC
 - On-site quick turn around time lab
 - Ease of maintenance
 - Training opportunities
- Estimated Delivery: April 2026



Bison lifts



Semi-truck or aircraft delivery

Lab Analysis Working Group Update



- CBRN Responder Laboratory Participation Effort
 - Many States have radioanalytical laboratories to support their programs that have a “State” account type in CBRN Responder.
 - To interact with FRMAC Laboratory Analysis Group in an event, a laboratory must have a “Laboratory” account type to enable it to access to the CBRN Responder laboratory portal. The portal facilitates electronic transfer of information, completed forms and data packages to reduce/eliminate manual entry of data.
 - Currently there are only ~20 state laboratories that have the “Laboratory” type account that will allow electronic interface with FRMAC.

Exercise Updates



- Cobalt Magnet 25 After Action Reports
- Radiological Assistance Program Training for Emergency Responders
- Regional Consequence Management Exercises
- Live Radiation Drills at Idaho National Laboratory
- Savage Unicorn Exercise



28 January 2026

Radiological Assistance Program
Regional Update



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Region 2 Request For Assistance/Outreach



Provided radiation training/exercise support to:

- 41st CST Road RAPTER Training, Louisville, KY
- JHAT World Cup Prep, Kansas City, MO
- NUWAIX Planning & TTX, Ft. Campbell, KY
- Regional Render Safe Training (RRST), Knoxville, TN
- Regional Render Safe Training (RRST), Richmond, VA
- Regional Render Safe Training (RRST), Louisville, KY
- Regional Render Safe Training (RRST), New Orleans, LA

Participated in:

- CBP Cs-137 Responses, Norfolk, VA
- DOE/TEMA/Dickson County CM Exercise, Dickson, TN

Preventive Radiological / Nuclear Detection - Support to Special Events:

- 2026 Sugar Bowl, New Orleans, LA
- Preparing for 2026 Mardi Gras



Region 3 Request For Assistance/Outreach



Suspected Soviet Era Pu-238 Powered Pacemaker

- Received notification from Florida Bureau of Radiation Control (BRC) that a hospital in Orlando had removed a pacemaker they suspected contained Pu-238 from the USSR. It was implanted in Kiev, Ukraine in 1992 and no records were available. The device was being stored in a nuclear medicine hot lab in St. Petersburg, FL pending disposition.
 - Hospital and Florida BRC explored numerous possible disposition paths but could find none because of the origin of the special nuclear material.
 - The NNSA Orphan Source Recovery Program (OSRP) takes items like this, but only when they contain U.S. origin nuclear materials.
 - RAP 3 deployed a small team to examine the device and determine whether it contained radioactive material and if it was intact.
 - Examined the device visually and with survey equipment. No radioactive signature was detected and research on the model markings on the pacemaker by NEST's Consequence Management Home Team confirmed the device was powered by a conventional battery.



Preparing for 2026 Masters and Heritage Golf Tournaments

- Provide PRND support to ensure public safety.
- Partner with FBI, CSTs, USPIS and state and local police and emergency responders.



Region 5 Request For Assistance/Outreach



Provided radiation training/exercise support and outreach to:

- State of Wisconsin and SHINE Technologies in Janesville WI, Sep 2025
- Milwaukee FBI Level 3 Regional Render Safe Training (RRST), Oct 2025
- FBI, City of Chicago, and State of Illinois for Curious Disintegration Exercise, Nov 2025
- State of Wisconsin Community Reception Center Radiation Workshop in Oak Creek WI, Nov 2025
- AF Radiological Assessment Team in Dayton OH, Nov 2025
- 52nd CST Training on Vehicle Mounted Detection Systems at Ohio State University reactor, Dec 2025

Participated in:

- RAP Regional No-Notice Exercise in Chicago IL, Jul 2025
- Radiological Security Awareness and Response Workshop and Tabletop Exercise with FBI, Illinois, and local agencies in Mundelein IL, Dec 2025

Preventive Radiological / Nuclear Detection Support to Special Events:

- Chicago Marathon (SEAR 1), Oct 2025
- Chicago Magnificent Mile Lights & Parade (SEAR 3), Nov 2025
- Chicago New Year's Eve at Navy Pier (SEAR 2) and Chicago River (SEAR 3), Dec 2025



Region 6 Request For Assistance/Outreach



Provided support to:

- Wyoming Office of Homeland Security (WOHS)
- Response to a local resident in possession of a small vial of Ra-226

Located in:

- Lander, Wyoming

Actions taken:

- January 08, 2026
- Assist the state in recovering a small vial of Radium powder by gathering spectrum, submitting to triage for identification, surveying the vial and resident for contamination and packaging the vial for transportation



Region 7 Request For Assistance/Outreach



Provided radiation training/exercise support to:

- Bay Area Rapid Transit (BART) & San Francisco Police Departments exercise
- North Bay HazMat training
- 95th CST major special event exercise
- San Jose Fire Department HazMat training
- Livermore/Pleasanton Fire Department training
- Contra Costa HazMat training

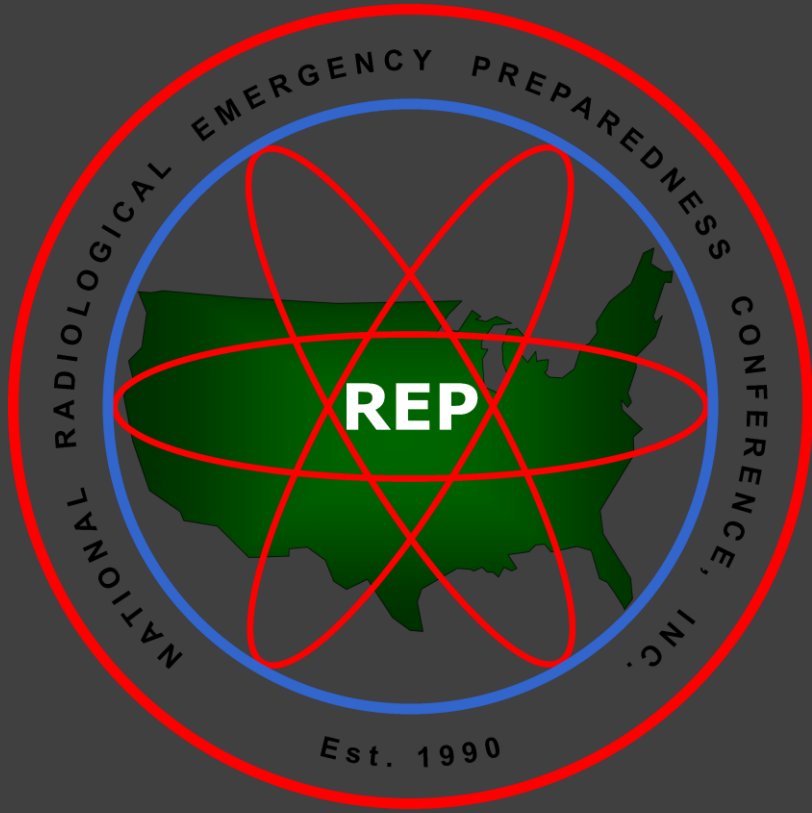
Deployments:

- DOE Site off-site contamination response
- Private citizen with radium powder
- Contaminated cloves in shipping container at Port of Long Beach
- CDPH source recovery from scrap metal shipping container

Preventive Radiological / Nuclear Detection - Support to Special Events:

- Las Vegas New Year's Eve, Tournament of Roses – Rose Bowl Game, baseline surveys of key venues for Super Bowl LX





NREP Conference

April 20-23, 2026

Overland Park (Kansas City), KS

Training Day: Monday, 4/20

Conference: Tuesday, 4/21 - Thursday, 4/23

Registration: \$675

Hotel: Sheraton Overland Park

[Register at NationalREP.org](https://NationalREP.org)



FRMAC Updates

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

Lisa Bruedigan, Executive Director

January 28, 2026

HS/ER – 4 – ROSS



Busy as usual



Now over 600 people have received ROSS training!



And.....soon to be 700 or more.

HS/ER 5 – Committee on Emergency Response Planning

Rae Walker (TX) is new Chair – Ken remains active

Participated in FEMA Scenario Guidance Workshop series

Plan to meet during NREP

HS/ER-18 – Training Coordinating Committee

- Will support the Days After Workshop in March with six state representatives.



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HS/ER-18 –Training Coordinating Committee



First Training - *Public Health Decision Making in a Radiation Emergency* – February 9 – 13, 2026 – Kentucky

Other trainings are planned for New Jersey, New England, and Minnesota

Received additional requests, but funding is only allowing five at this time.

RadResponder – CRCPD Letter to FEMA



Sent letter of concern on December 4, 25

Identified five main areas of concern
Proposed three possible resolutions



Call on December 19, 2025

Sent spreadsheet from E-43



Follow-up Call on January 23, 2026

FEMA believes

- Resolved and closed 28 concerns
- Fixed 9 “bugs”
- Need additional user input on five issues
- Eight remaining are duplicates, non-issues, need enhancements or analysis

RadResponder – CRCPD Letter to FEMA

- CRCPD and H-43 are committed to testing previous concerns and working together to resolve any remaining
 - Requested a meeting with FEMA before their regular meeting in February
- Still have ongoing concerns with why RadResponder/CBRNResponder were not considered “mission critical” during the shutdown

CRCPD Letter to NRC



Sent Friday, January 23, 2026, on behalf of the CRCPD State Radiation Control Programs (RCPs)



RCPs provided input in December



New draft sent and observed required 30-day notice before a business meeting to consider approval

Comments and concerns regarding evaluation of LNT and ALARA pursuant to EO 14300, Section 5(b)

CRCPD Letter to NRC

Focus On:

Scope and Impact of Potential Changes to
10 CFR Part 20

Compatibility, Harmonization, and
International Considerations

Role and Value of the ALARA Principle

Scientific Basis and Appropriate Authorities

Stakeholder Engagement and State
Participation

CRCPD Letter to NRC

CRCPD's Intent and Request:

- *Meaningful engagement of state radiation control programs in the ALARA/LNT reevaluation process;*
- *Clear communication regarding the scope and intent of any proposed changes to 10 CFR Part 20;*
- *Consideration of compatibility, implementation challenges, and unintended consequences across both the materials and X-ray programs;*
- *Continued collaboration to ensure uniform, protective, and practical radiation regulation nationwide.*

CRCPD Annual Meeting

- May 2026
 - May 15th & 16th – Board and Committee Meetings
 - May 17th – ROSS and AAPM Training Day
 - May 18 – 21st – Annual Meeting
- Lombard, IL – Chicago Area
- Registration opening 1st week of February

WE HOPE TO SEE YOU THERE!

FRMAC Partner Updates



State and Federal Agency

Updates

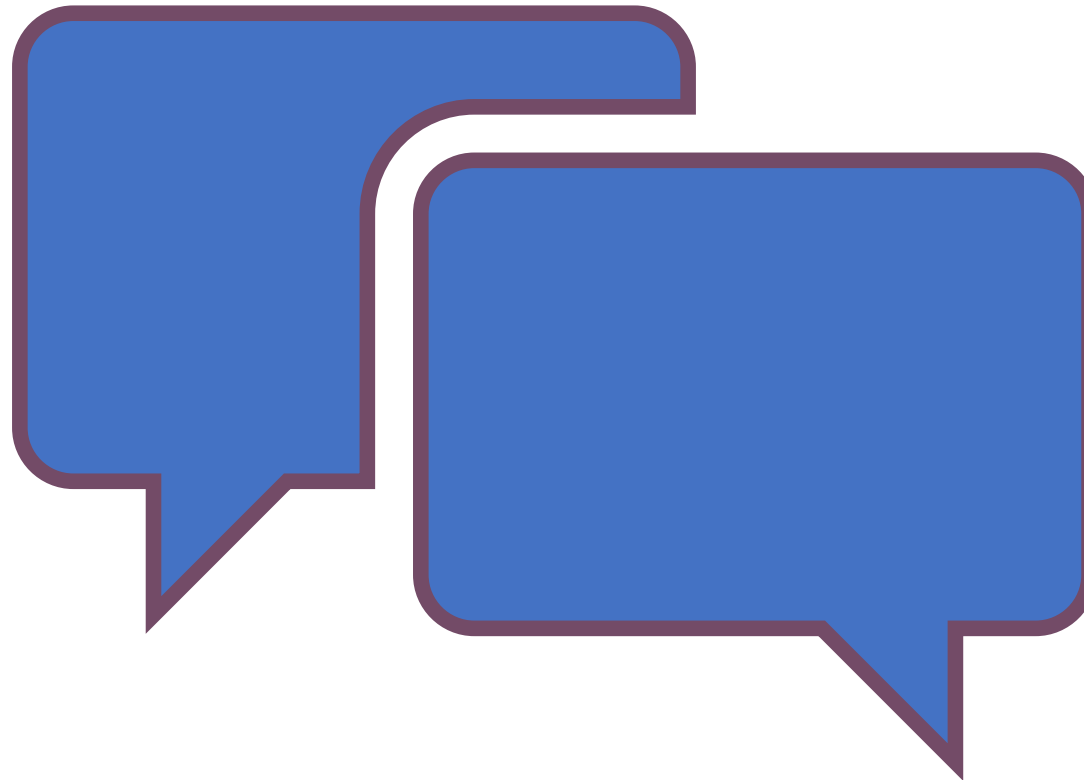


FEMA Ingestion Pathway Schedule



MON	2026	2027	2028
JAN		09-10 Turkey Point IPX (RAP 3)	
FEB			
MAR	25 Perry OUT (RAP 5)		
APR		07 Comanche Peak DR (RAP 4)	11-12 Cooper DR (RAP 4)
MAY		11-12 Comanche Peak IPX (RAP 4)	16-17 Cooper IPX (RAP 4)
JUN		15-16 Wolf Creek DR (RAP 4)	13-14 Millstone IPX (RAP 1) 20-21 ANO DRX (RAP)
JUL		12 Point Beach IPX (RAP 5) 19-23 Surry IPX (RAP 2)	
AUG		17-18 McGuire IPX (RAP 3) 30 Peach Bottom IPX (RAP 1) 31 Wolf Creek IPX (RAP 4)	22-23 ANO IPX (RAP 2)
SEP	16-18 Calvert Cliffs IPX (RAP 1) 21-25 Perry IPX (RAP 5) 29-30 Salem/Hope Creek OUT (RAP 1)	01 Wolf Creek IPX (RAP 4)	27 Seabrook IPX (RAP 1)
OCT	05-09 Ginna IPX		
NOV	17-19 Salem/Hope Creek IPX (RAP 1)		
DEC			

Open Discussion and Questions



Next Webinar

Wednesday, July 29 , 2026



Visit the site below for additional content

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



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