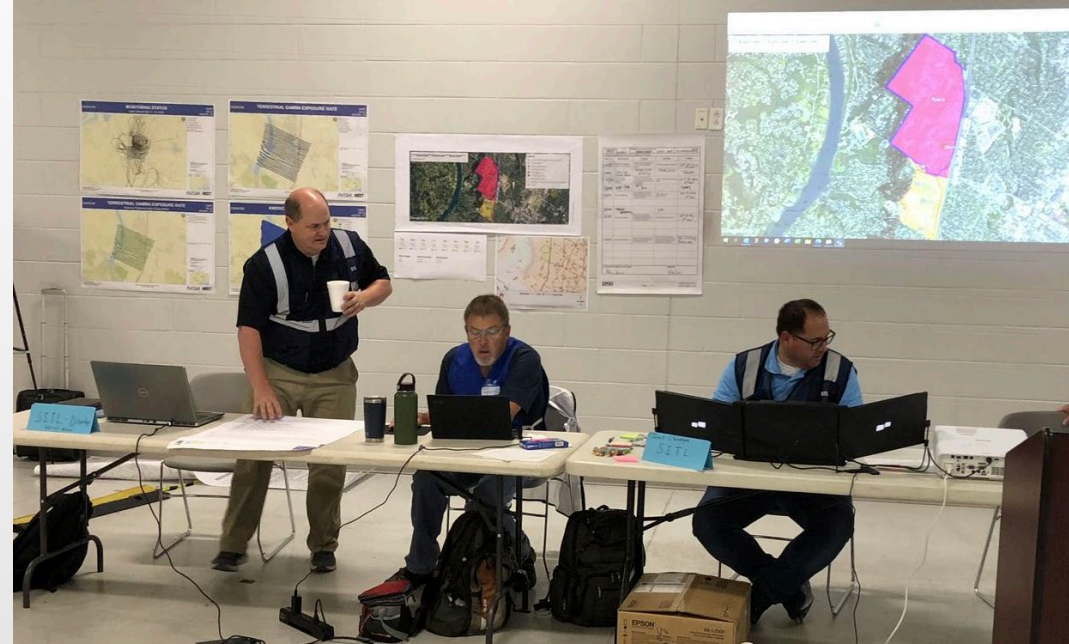


EXERCISE UPDATES FROM DOE/NNSA

Cobalt Magnet 2022 (CM22) Exercise Summary

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- CM22 was held in May of 2022 in Austin, Texas
- Approximately 30 agencies from a State, Local, and Federal level participated
- The exercise was a Search to CM scenario
- Monday consisted of searching for materials, and detonation occurred on Tuesday

Analysis Process

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- Leveraged Microsoft Forms and Power-BI dashboard view to capture real-time analysis during CM22
- Over 1300 observations were collected
- 11 pages of hotwash notes were recorded
- Over 60 phone calls and adjudications discussions were conducted
- Only findings that included more than one agency were included in the Interagency report

The screenshot shows a mobile application interface for data collection. It features a white background with a black border. At the top, the title 'Observation Basic Details' is displayed in blue. Below the title, question 3 asks 'What group(s) is this observation about?' and is marked with a red asterisk. It provides four radio button options: 'Responders in Texas', 'Remote Nodes', 'Exercise (design, staff, MSEL, etc.)', and 'Other' (with an adjacent text input field). Question 4 asks 'What type of observation is this?' and is also marked with a red asterisk. It provides three radio button options: 'Best Practice', 'Issue Identified', and 'Exercise MSEL Tracking'.

Observation Basic Details

3. What group(s) is this observation about? *

Responders in Texas

Remote Nodes

Exercise (design, staff, MSEL, etc.)

Other

4. What type of observation is this? *

Best Practice

Issue Identified

Exercise MSEL Tracking

CM22 Summary of Findings

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- The final Interagency AAR was 91 pages in length
- Findings were broken into 8 topic areas:
 - Communication
 - Technology
 - Standard Operating Procedures (SOPs)
 - Training
 - Public Messaging
 - Scientific Analysis
 - Exercise Design
- 3 overarching themes were identified to aid readers in reviewing linked topics



COBALT MAGNET 2022



INTERAGENCY AFTER-ACTION REPORT

National Nuclear Security Administration

Office of Counterterrorism and
Counterproliferation

Office of Nuclear Incident Response,
Operations and Exercises,
Continuous Improvement Group

Theme 1: Changes in operations during and following COVID-19 have not been integrated into existing response procedures and documentation

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- During COVID-19, the majority of the United States began working remotely. Many systems were leveraged for collaboration in ways that previously did not exist.
- As a result, there are not yet updated Standard Operating Procedures (SOPs) to ensure that all responders have a clear understanding of the operational expectations that account for these new systems and tools.
- Theme 1 spanned 3 individual Sub-Topics and touched Communication and Technology Topic Areas.



Theme 2: Response procedures, training, and drills outside of Nuclear Power Plant scenarios are needed at a State, Local, and Federal level to better respond to other event types.

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- While all responders are well practiced in regions with Nuclear Power Plants on how to respond to any type of radioactive contamination event from a reactor release, other event types present significant challenges for responders to quickly integrate and collaborate to maintain an efficient response organization.
- During CM22, this was a theme that presented in numerous areas given the Radiological Dispersal Device scenario brought together many organizations that were not familiar with one another's capabilities and mission spaces.
- Theme 2 spanned 4 individual Sub-Topics and touched Communication, SOPs, and Scientific Analysis Topic Areas.



Theme 3: Sharing of information outside of individual agencies needs to be improved

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- While many agencies demonstrated the ability to share critical information internally, there were many findings related to challenges in sharing between organizations as well as externally to the public and the media.
- Theme 3 spanned 10 individual Sub-Topics and touched Technology, SOPs, Training, Public Messaging, Management, and Scientific Analysis Topic Areas.



Cobalt Magnet 2025 (CM25) Exercise Summary

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The DOE led CM25 exercise will be conducted from March 15-21, 2025



The EPA led Long-Term Recovery Workshop will take place in Michigan from April 14– 18, 2025



The event will be a Nuclear Power Plant (NPP) release scenario based on a simulated disaster at the Fermi II NPP



CM25 Preliminary Objectives: Status Summary

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Objectives are in the process of being submitted for all identified participating agencies

- Presently there are 16 agencies, but that number will likely continue to increase
- Agencies include State, Local, Federal, and Canadian representation
- Still continuing to engage with additional partners at this time

Primary goal is to have high-level objectives finalized by March 29, 2023

- High level objectives will be included in the Extent of Play document for CM25
- More detailed objectives will continue to be developed and ultimately become capability targets and critical tasks for CM25

Initial discussion surrounding possible objectives occurred at the Concept Development Meeting (CDM) in October of 2022



CM25 DOE Specific Preliminary Objectives

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Leadership

- Assess the resource constraints of the NEST response
- Evaluate the NEST and FRMAC leadership transition from a DOE-led to EPA-led FRMAC
- Evaluate our ability to communicate cross government
- Evaluate ability to integrate DOD assets into United States Government (USG) response

Technical

- Evaluate response in the Intermediate to Late phase of a nuclear power plant incident
- Evaluate efficiency of data sharing between all levels of government
- Evaluate the process of obtaining sample results starting from sample collection through analysis
- Assess the ability to perform all functions within a limited communication environment
- DOD/NNSA Field monitoring coordination

Policy

- Develop draft federal planning guidance for: cleanup and long-term recovery of large areas contaminated as result of a nuclear accident
- Validate updated NRIA
- General:
- Assess team's ability to support sustained operations, possibly 24 hour operations for all 7 days, or at a minimum longer shifts beyond the typical 8 hours

CM25 Planning Schedule Overview

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Event	Type	Dates	Location
Objectives Finalization Meeting	Planning MTG	March 29, 2023 (11am-1pm EDT)	Virtual (2 hours)
Radiological Scenario Finalization Session	Planning MTG	12 APRIL 2023 (W) 10-12pm EDT	Virtual (2 hours)
Planning Team Training	Workshop	May 31, 2023 11am-2pm EDT	Virtual (3 hours)
Scenario Details Development Workshop (Renamed)	Workshop	June 7-8 (W-Th)	Michigan
Incident Management Workshop	Workshop	August 9-10 (W-Th)	Michigan
Initial Planning Meeting -2 Days IPM -1 Day UC/ICS/IMT focus	Planning MTG	12-14 SEPT 2023 (T-Th)	Michigan
Site Survey #2	Other	23-27 OCT 2023 (M-F)	TBD: Lansing, Monroe, Ohio, Canada
MSEL Preparation Session	Planning MTG	10 JAN 2024 (Wed)	Virtual (~4 hours)

CM25 Planning Schedule Overview

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Event	Type	Dates	Location
MSEL Meeting # 1	Planning MTG	6-8 FEB 2024 (T-Th)	TBD, Michigan (physical meeting)
Midterm Planning Meeting	Planning MTG	16-18 APRIL 2024 (T-Th)	TBD, Michigan (physical meeting)
MSEL Scripting # 2	Planning MTG	10—12 SEPT 2024 (T-Th)	TBD, Michigan (physical meeting)
Tabletop Exercise (IPX Outreach method)	Workshop	22-24 OCT 2024 (T-Th)	TBD, Michigan (physical meeting)
Final Planning Meeting	Planning MTG	7-8 JAN 2025 (T-W)	TBD, Michigan (physical meeting)
COMMEX #1	Other	9 JAN 2025 (Th)	TBD, Michigan (physical meeting)
COMMEX #2	Other	11 FEB 2025 (T)	TBD, Michigan (physical meeting)
Senior Leader Seminar	Seminar	12 FEB 2025 (W)	TBD, Michigan (physical meeting)
CM25 Execution	Execution	15- 21 March 2025 (S—Fr)	Michigan (and remote locations)
Long Term Recovery Workshop Player Action Discussion	Workshop	2 APRIL 2025 (W)	Virtual (~4 hours)
Long Term Recovery Workshop/TTX	Workshop	14-18 April 2025 (M-F)	TBD, Michigan (physical meeting)