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# EPA's Plans for Radiological Incident Recovery

## Cobalt Magnet 25

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# EPA's Mission



- Protect human health and the environment
- ORIA's Mission – protect the public and the environment from radiation and indoor air pollution

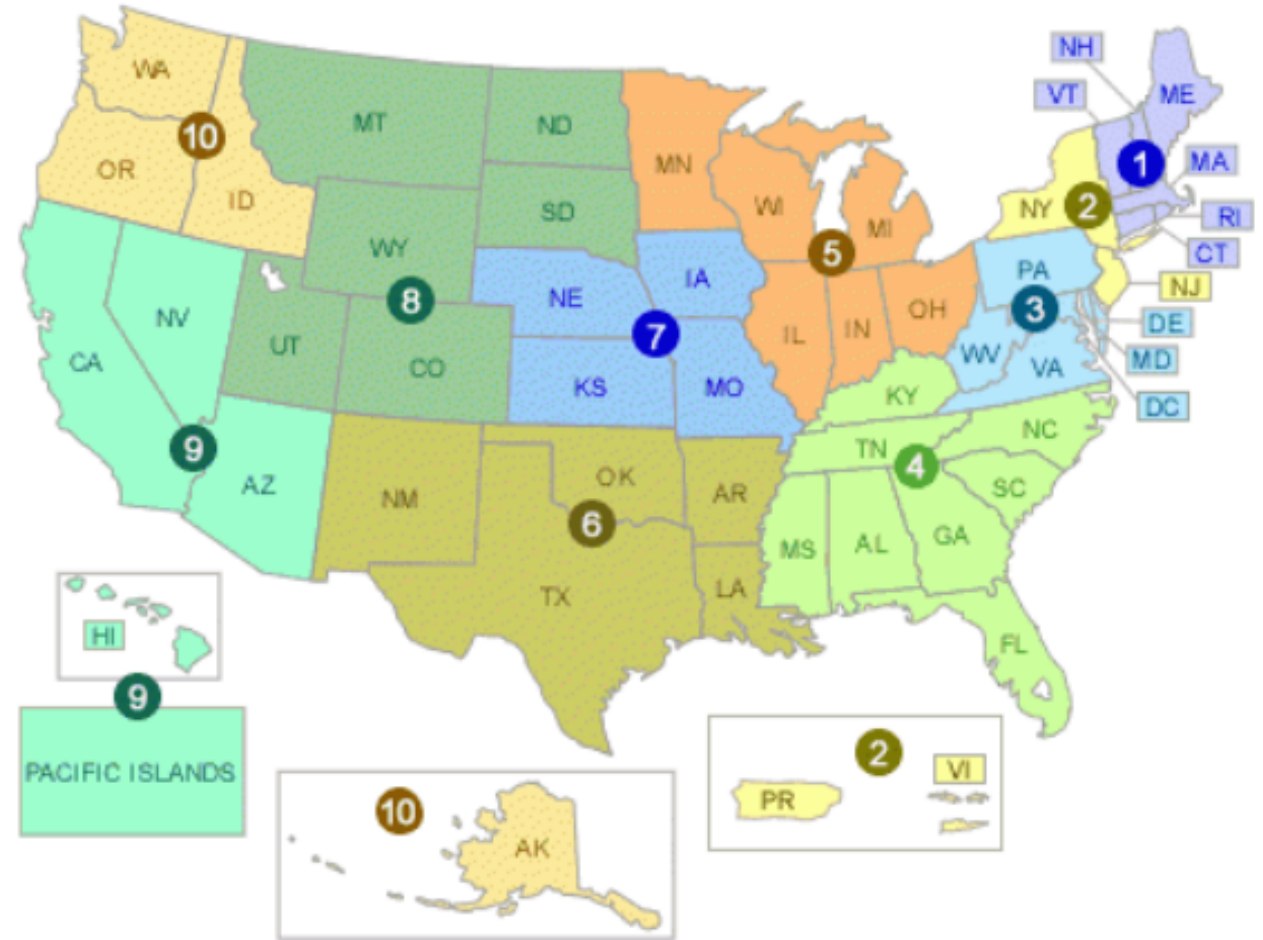




# EPA Regions



- Region 1 – Boston
- Region 2 – New York City
- Region 3 – Philadelphia
- Region 4 – Atlanta
- Region 5 – Chicago
- Region 6 – Dallas
- Region 7 - Kansas City
- Region 8 – Denver
- Region 9 - San Francisco
- Region 10 – Seattle
- <https://www.epa.gov/radiation/regional-radiation-contacts>

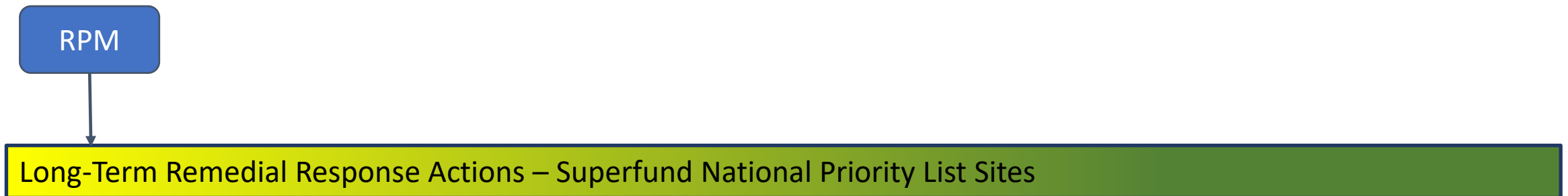
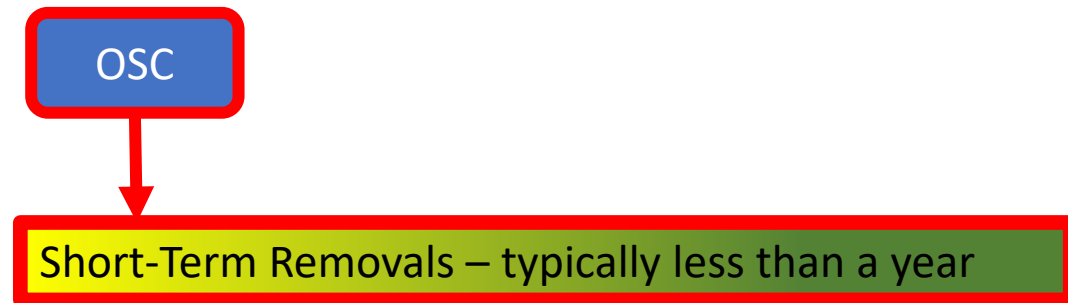




# EPA's ER Authority



- Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA/NCP)
- Two types of response actions under CERCLA
  - Short-term
  - Long-term
- NCP vs. Stafford Act







# FEMA Stafford Act Response

## EPA ESF 10



### Emergency Support Function #10 – Oil and Hazardous Materials Response Annex

#### ESF Coordinator:

Environmental Protection Agency

#### Primary Agencies:

Environmental Protection Agency  
Department of Homeland Security/  
U.S. Coast Guard

[https://www.fema.gov/sites/default/files/2020-07/fema\\_ESF\\_10\\_Oil-Hazardous-Materials.pdf](https://www.fema.gov/sites/default/files/2020-07/fema_ESF_10_Oil-Hazardous-Materials.pdf)

#### Support Agencies:

Department of Agriculture  
Department of Commerce  
Department of Defense  
Department of Energy  
Department of Health and Human Services  
Department of Homeland Security  
Department of the Interior  
Department of Justice  
Department of Labor  
Department of State  
Department of Transportation  
General Services Administration  
Nuclear Regulatory Commission



# EPA Radiological Response Assets



- Regional Resources
  - OSCs
    - Superfund Technical Assistance and Response Team (START) – *contractor support*
    - Emergency and Rapid Response Service (ERRS) – *contractor support*
    - Radiation Advisors
    - Regional Incident Coordination – *coordination support*
    - Regional Response Teams – *coordination support*
    - EPA HQ assets available as needed





# EPA Radiological Response Assets



- Headquarters Resources
  - ORIA Radiological Emergency Response Team (RERT)
    - NCRFO – field teams, survey equipment, gamma scanner vehicle/cart
    - NAREL – radioanalytical laboratory
    - RPD – health physicist and PIOs
  - OEM CBRN Consequence Management Advisory Division (CMAD)
    - ASPECT
  - National Incident Coordination Team – *coordination support*
  - RadNet – 140 fixed monitoring stations
    - Continuous air monitoring
    - Exposure rate monitoring





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- 5-Day full-scale field exercise (DOE/NNSA Led)
  - 17-21 March 2025 in Michigan
  - NPP release – Enrico Fermi Nuclear Generating Station, Fermi unit 2
- Followed by a 5-day Long-term Recovery Workshop/TTX (EPA Led)
  - 14-18 April 2025 in Michigan







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## Overarching Objectives

- Provide integrate federal response and recovery for a major radiological incident
- Use NIMS and NRF to manage federal, SLTT, international (Canada), and private sector response
- Share information among all response partners: federal, SLTT, and Canada
- Coordinate public message sharing among response partners: federal, SLTT, and Canada





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## EPA Objectives: 5-day FSE



- Integrate into FRMAC and the consequence management (CM) organization.
- Coordinate between EPA HQ and EPA regional response assets.
- Coordinate between assessment scientists and PIOs for technical and messaging products.
- Work collaboratively within the A-Team to provide recommendations to state and local officials.
- Utilize CBRNResponder as the primary data management tool.
- Integrate into and support the NRCC NRITF.
- Integrate into FRMAC deputy leadership positions in preparation for DOE to EPA recovery phase transfer.
- Operate FRMAC for at least one operational period under EPA leadership.
- Field Teams (NCRFO) coordinate deployment activities with FRMAC.
- Field Teams (NCRFO) integrate with FRMAC unified command (UC) field teams.
- ASPECT team deploy and integrate into UC to support data gathering operations.
- PIOs integrate into UC.







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## EPA Objectives: 5-day Recovery TTX

- Develop plan to transfer from FRMAC CM to EPA recovery for both HQ and Region.
- Demonstrate the DOE-EPA mutually agreeable demobilization process of DOE from the FRMAC post-transfer.
- Demonstrate accurately archiving and securing CBRNResponder data at the time of FRMAC transfer to maintain a chain of custody and to certify the accuracy of the data at that time.





# Precursor CM-25 Recovery Exercise

## NEA INEX-6 TTX



- Exercise materials prepared by NEA for member nations
- Long-term recovery 1 year after large-scale rad incident
- Four Modules: 4 hours each, question driven
  - Health Impacts – Module 1
  - Food Safety – Module 2
  - Remediation and Decontamination – Module 3
  - Waste Management – Module 4
- EPA is national planning committee lead
- Players/observers from all levels of government
- Dates
  - March 19, 2024 from 1300-1700 ET: Module 1
  - March 20, 2024 from 0800-1200 ET: Module 3
  - March 20, 2024 from 1300-1700 ET: Module 4
  - March 21, 2024 from 0800-1200 ET: Module 2



