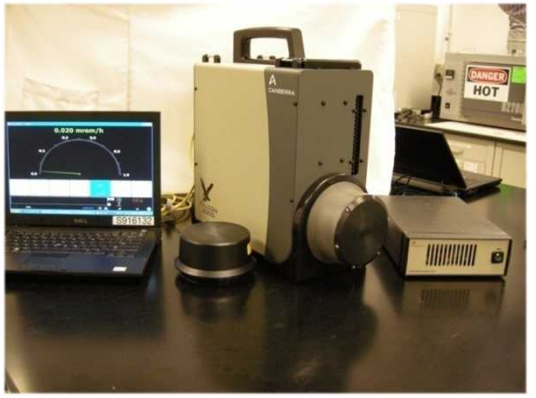
SAND2015-6188C

Joint Agency Radiological Response Field Exercise—Savannah River Site (April 2015)

Semi-Annual FRMAC/State Conference Call
July 29, 2015

Presenters:
Christina Edwards (DOE/RAP)
Mark Allen (SNL/FRMAC)
Christopher Royce (EPA)



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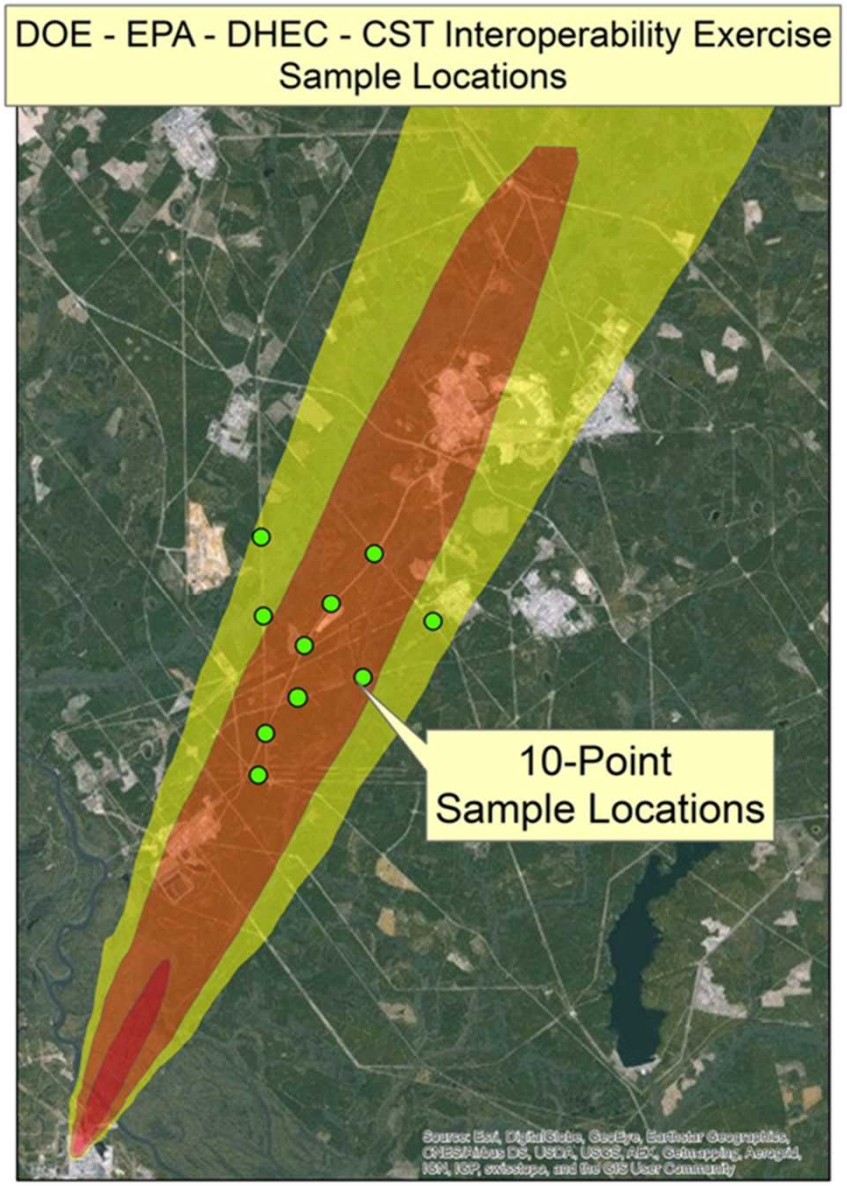
Exercise Background

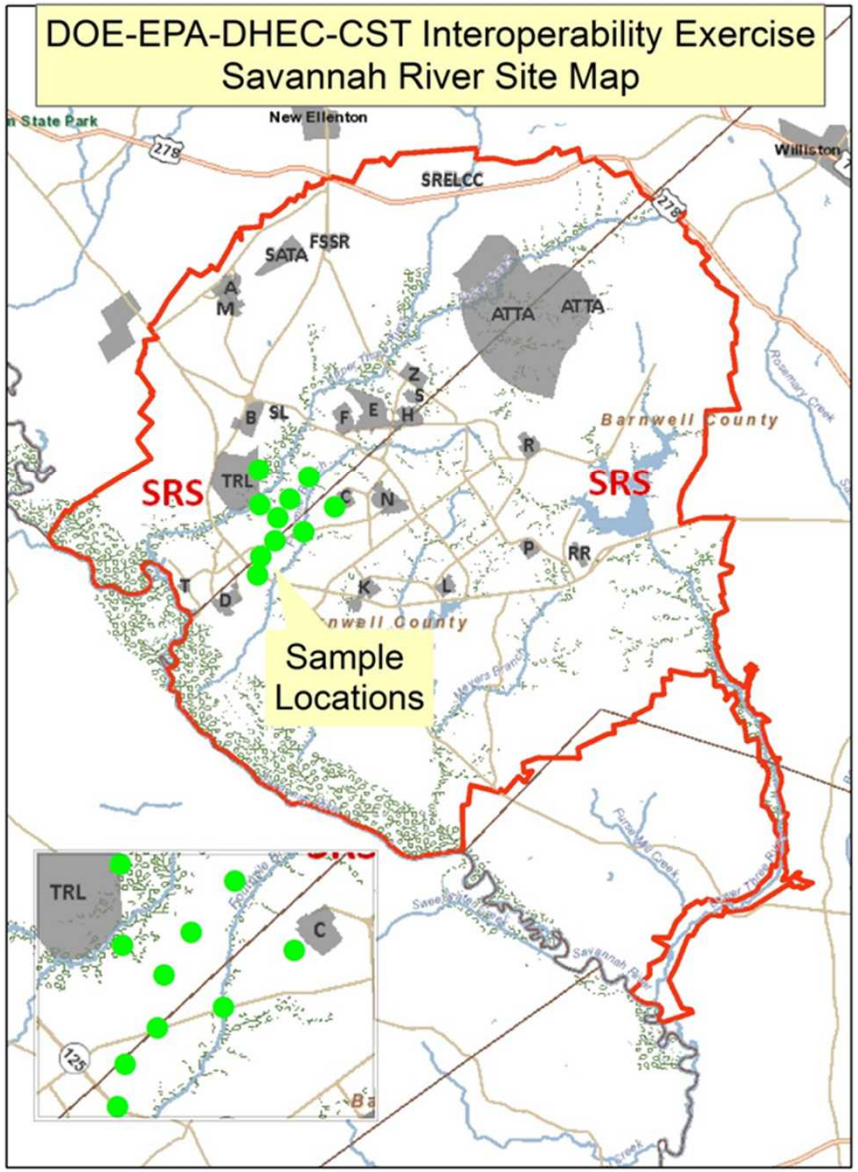
- DOE/EPA Interoperability Exercises Partially Sponsored by FEMA Nuclear Incident Response Team program
- Exercises hosted at the DOE Savannah River Site
  - August 2013
    - Participants: DOE, EPA
  - June 2014
    - Participants: DOE, EPA, SC DHEC
  - April 2015
    - Participants: DOE, EPA, SC DHEC (Field Teams and Mobile Lab staff), 43rd CST
- Exercises focused on field team and laboratory operations

RAP Objectives

- Mission Planning, including creating 10-Point Monitoring Plan
- Collect air, water, soil, and vegetation samples in accordance with FRMAC methods
- Enter sample data and transmit data to RAMS using eFRMAC
- Complete sample control forms and process samples through FRMAC Sample Receipt Line

Sample Locations





FRMAC Drill Objectives

- Walk-down FRMAC Lab Analysis functions/processes involving:
  - On-site mobile laboratories
  - Off-site laboratory
- Train new lab analysis CMRT-II personnel
- Ship samples to an off-site laboratory
- Test FRMAC Webportal functionality

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FRMAC Sample Control Logistics

FRMAC Sample Control Logistics

- Available at T=0
  - Pre-staged samples already in RAMS for immediate delivery to on-site mobile laboratory
  - Hardcopy data packages available for preloaded samples within RAMS for immediate QA/QC review
- Received soil, water, vegetation, air samples collected from field teams
- Samples processed through FRMAC hotline and delivered/shipped to:
  - On-site EPA Mobile Laboratory
  - Off-site EPA NAREL laboratory (Montgomery, AL)
- Processed Electronic and Hardcopy Data received from
  - EPA Mobile Laboratory
  - Off-site laboratory via the Webportal process
- QA/QC Data verification performed and uploaded into RAMS

PLAY VIDEO CLIP

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FRMAC Laboratory Analysis Web Portal

Nuclear Incident Response Program - Lab Analysis Web Portal - Home

Hello, Sean.Fou

Portal Home | Admin | My Profile

Welcome to the Laboratory Analysis Portal

This tool is used by the Department of Energy's Federal Radiological Monitoring and Assessment Center (FRMAC) to send and receive information to and from your laboratory. The FRMAC has requested assistance from your laboratory to analyze samples of various matrices in support of emergency response efforts. The information in this web portal will assist you in preparing to receive and analyze these high-priority samples. The Analysis Request Form (ARF) and Analysis Instruction Sheet (AIS) for each sample group can be accessed in the table below by selecting the analysis group you wish to view.

Analysis requests that show up here are currently on their way to your laboratory or may already be at your laboratory undergoing analysis. Please use this portal to report electronic data back to the FRMAC. A tutorial for using this portal can be found through a link at the bottom of this page. If you have questions regarding the use of this web portal, please contact the FRMAC Point of Contact indicated on your analysis request form. Thank you for your service to the nation during this time of crisis.

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FEMA

NNSA National Nuclear Security Administration

ARF's assigned to National Analytical Radiation Environmental Laboratory (NAREL)

Click 'Open ARF' to view the ARF details page.

	ARF #	Date Sent (utc)	Samples Complete	Viewed?	
1	ARF-00019	2015/04/13	Test: 53; Results: 47	viewed	Open ARF
2	ARF-00015	2015/04/20	Test: 82; Results: 137	viewed	Open ARF
3	ARF-DEMO-EPA-NAREL-001	2015/03/25	Test: 13; Results: 1	viewed	Open ARF
4	ARF-00020	2015/04/13	Test: 60; Results: 60	viewed	Open ARF
5	ARF-00024	2015/04/21	Test: 12; Results: 0	viewed	Open ARF
6	ARF-00016	2015/04/20	Test: 62; Results: 78	viewed	Open ARF
7	ARF-00021	2015/04/13	Test: 121; Results: 93	viewed	Open ARF

2 page(s): [1] 2 Jump to Page Go

Laboratory Analysis Portal Tutorials [PDF] **Manage Laboratory Accounts**

Browser Accessibility

This web application is best used with Internet Explorer 9+, FireFox or Google Chrome. Older browsers may exhibit inconsistent behavior.

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FRMAC Lessons Learned

- All FRMAC drill objectives met
- Good communications between FRMAC, EPA , and RAP
- Venue proved to be an excellent lab-focused training opportunity
  - Enabled opportunity to practice QA/QC data processes
- Off-site labs can be integrated into exercise play with real samples
- Shipping process and tools need to be refined/developed
- Successful use of Webportal
  - Additional training needed for trouble shooting Webportal
- Many process improvements and noteworthy practices identified in hotwash

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EPA Drill Objectives

- Deliver, Set up, and Operate Mobile Environmental Radiation Lab (MERL) to customers site
- Connect with National Analytical Radiation Environmental Lab (NAREL) for data back up
- Receive, Screen, Process samples and report results in a timely basis in the customers format from the MERL and NAREL
- Implement new Lab Information Management System
- Liaison with state mobile lab staff

EPA Lessons Learned

- Communications between FRMAC and EPA are strengthened through regular practice
- Resolve analytical request issues quickly
- Process problems cannot be identified in a controlled environment
- NAREL must be integrated into future exercises
- Be cognitive of necessary supplies/equip and keep an stock and be adaptable
- Drills/exercises do not need to be elaborate and cumbersome to be beneficial

Future Opportunities

- Future Mission Alignment Opportunities:
  - Resource sharing between EPA and FRMAC (lab supplies, office equipment, etc.)
  - Tool to match capabilities of EPA sample prep lab with compatible sample types MJ1
  - Formation of a Field/Lab Operation Workgroup
  - Conduct drills with State field teams, mobile and fixed labs
  - Offer training and develop opportunities to inform states of federal capabilities and services
  - Share sampling, monitoring and lab processes among states and feds to encourage consistency

Slide 12

MJ1 What does this mean?
Mosser, Jennifer, 7/22/2015