

ROSS Quarterly Call

26 September 2023



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Agenda

- Welcome from FEMA Office of Emerging Threats (OET) Branch Chief and ROSS Program Manager – Jonathan Gill, PhD
- Mission Edge Introduction – Angela Leek
- HSIN review – Jeff Semancik
- Updates from CRCPD HS/ER-4 Committee – Bill Irwin
- Advancing by Type– Chris Moore, Type 1, Danette Fennessy, Matt Miller and Jason Flannigan, Type 3
- Closing Remarks – Jon Gill, FEMA OET



Source: GAO. | www.gao.gov

<https://www.gao.gov/products/gao-19-164>
accessed 2/23/23.



<https://www.crcpd.org/> accessed 6/24/23.



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FEMA Office of Emerging Threats

Opening Remarks

Jon Gill, PhD



Source: GAO. | www.gao.gov

FEMA OET Updates

- Introduction and Background.
- FEMA's Chemical, Biological, Radiological, and Nuclear Office re-flagged to FEMA Office of Emerging Threats.
 1. Continuing efforts to increase training opportunities for both initial and continuing training.
 2. Grow the program.
 3. Program documentation.



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Introduction to Mission Edge

Angela Leek, CHP, FEMA Type 1 ROSS



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Any Questions:

Contact: angela.leek@summitet.com



Software as a Service

MissionEdge supports your field operations needs via a secure, resilient cloud hosted application accessed by your entire team. Manage qualifications, track training, execute deployments, and monitor daily accountability.

Qualifications Management

Improve readiness through real-time resource tracking for your organization, your partners, and sub-contractors. Meet your objectives and achieve a fully staffed and qualified field capability.

Field Operations

Manage your field operations, resource availability, and deployments. Manage your downrange personnel and communicate with your teams while keeping senior leadership fully informed.

Chainbridge Technologies

8229 Boone Blvd
Suite 600
Vienna, VA 22182
Phone: (703) 938-1270

Connect

 Support@MissionEdge.com

MissionEdge – CRCPD Organization

- Maintain an accurate list of ROSS:
 - Contact information
 - State Affiliation
 - Qualifications – PTBs and Typing

- Each state with a State ROSS Coordinator has a sub-organization under the CRCPD Org.
 - State ROSS Coordinator and AHJ will have administrator rights to their state’s org account
 - Can manage qualifications and deployments of ROSS within their state
 - If their state uses MissionEdge for other qualifications, the accounts can be merged together



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You are Requested to Deploy

Iowa IPX - Radiological Operations Support Specialist (FEMA NQS) - Type I
Scheduled Travel Start: Monday, January 1st
Scheduled Arrival: Thursday, September 28th
[Click here to accept or review your deployment request information](#)

Approval Requests and Workflows

1 item pending your approval
1 pending Approve Task Book awaiting your review

Open PTB

Incident Commander (FEMA NQS) - Type IV
0% Complete

Trainee/Candidate

Gillette, Kelly

Availability

Manage your availability

Responder Profile

Organizations, Positions, PTBs, Trainings, Deployment History, etc.

Contact Details

Manage your phone numbers, emails, and location

Account Management

Update your username, password, security question, and preferred name

Need Help?

[View Support Information](#)

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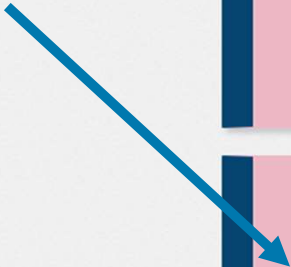
Open PTB

Incident Commander (FEMA NQS) - Type IV
0% Complete

Trainee/Candidate

Gillette, Kelly

Manage
your PTB



Position Task Book

Export

Task Book Info

NAME	Leek, Angela
CATEGORY	Incident Management
TRAINEE POSITION	Incident Commander - Type IV
SPONSORING ORGANIZATION	Federal Emergency Management Agency (FEMA) FEMA NQS
STATUS	Issued

Status ^

PTB Evaluators ^

Manage

Training ^

Request Training Credit

Behaviors and Tasks ^

Additional Qualification Requirements ^

Skillsets ^

Comments ^

Record Comment

Documents ^

Attach Document

Messages ^

Send Message

STATUS Issued

Status ^

PTB Evaluators ^

Manage

Training ^

Request Training Credit

Behaviors and Tasks v

INCOMPLETE?

COMPLETED?

WAIVED?

	Competency	Behavior	Tasks
+	Assume position responsibilities	Ensure availability, qualifications, and capabilities of resources to complete assignment	0/3
+	Assume position responsibilities	Ensure readiness for assignment	0/4
+	Assume position responsibilities	Establish or determine organizational structure, reporting procedures, and chain of command of assigned resources	0/4
+	Assume position responsibilities	Successfully assume role and initiate position activities	0/2
+	Assume position responsibilities	Understand and comply with NIMS/ICS concepts and principles	0/6
+	Communicate effectively	Communicate incident priorities and operations	0/3
+	Communicate effectively	Develop and implement plans	0/3
+	Communicate effectively	Effectively gather, produce, apply, distribute, and communicate information	0/2
+	Communicate effectively	Ensure documentation is complete and disposition is appropriate	0/4
+	Communicate effectively	Ensure the exchange of relevant information during briefings and debriefings	0/7

10 Showing 1 to 10 of 23 entries

Previous 1 2 3 Next

Additional Qualification Requirements ^

Skillsets ^

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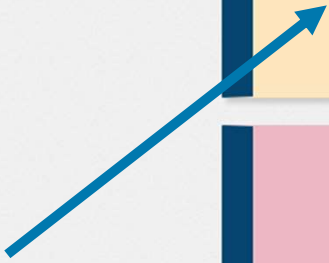
Open PTB

Incident Commander (FEMA NQS) - Type IV
0% Complete

Trainee/Candidate

Gillette, Kelly

Manage your Deployments



Deployment Details

[✕ Decline](#)[➔ Accept](#)

You are Requested to Deploy

Use the buttons above to change your deployment status.

Deployment Info

EVENT	Iowa IPX
DUTY STATION	State EOC SEOC Johnston, IA 50000
EVENT DEPLOYMENT NOTES	Request for ROSS to support dose assessment at SEOC in Iowa for IPX
DEPLOYMENT NOTES	Individual notes about when to arrive, who to report to, duty specific items
DEPLOYED POSITION	Radiological Operations Support Specialist (FEMA NQS) - Type I
SCHEDULED ARRIVAL DATE	9/28/2023
SCHEDULED DEPARTURE DATE	9/30/2023

Availability

Manage your availability

Responder Profile

Organizations, Positions, PTBs, Trainings, Deployment History, etc.

Contact Details

Manage your phone numbers, emails, and location

Account Management

Update your username, password, security question, and preferred name

Need Help?

View Support Information

Manage your
Contacts

Contact Details

Email Addresses

[+ New Email](#)

angelaleek@summitet.com

[Edit](#)[X Remove](#)

Work

 Primary? Receive Notifications?

Phone Numbers

[+ New Phone](#)

+1 515 229 8289

[Edit](#)[X Remove](#)

Personal

Location

COUNTRY

United States

[x](#) ▾

STATE

Iowa

[x](#) ▾

CITY

Des Moines

[Save](#)

MissionEdge – CRCPD Organization

- More training to come – watch for invitations
 - State ROSS Coordinator and AHJ – how to manage the organization and sign off on PTBs
 - ROSS – how to use portal to upload documents, send/respond to messages, and accept deployments

QUESTIONS?



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Review of the HSIN ROSS Community of Interest

Jeff Semancik, FEMA Type 1 ROSS



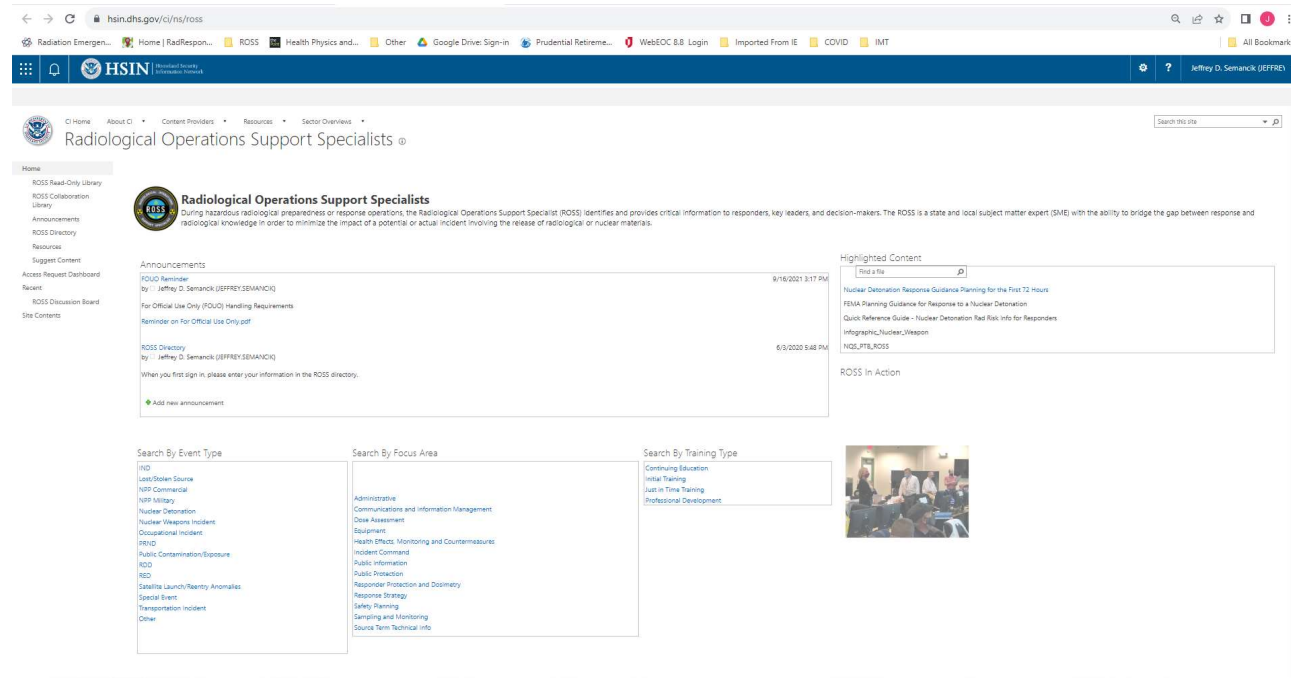
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Any Questions:

Contact: Jeffery.Semancik@ct.gov

Homeland Security Information Network ROSS Community of Interest

- Site designed and maintained by ROSS for ROSS
- Benefits
 - Access for all ROSS (don't need .gov email)
 - Vetted membership
 - FOUO
 - Searchable meta-data
 - Professional support



CRCPD coordinated funding and support from DHS Cyber & Infrastructure Security Agency (CISA) – Nuclear Sector Coordinating Council



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Homeland Security Information Network ROSS Community of Interest (COI)

ROSS will be **nominated** (*get a HSIN account*) and **validated** (*given access to ROSS COI*) for access.

3 Cases:

1. IF you have previously been given access to the ROSS COI
 - *We will send you an email reminder, you will need to sign in.*
 - *May need to work through HSIN Help desk to reset your password/HSIN access*
2. IF you already have a HSIN account but not a member of the ROSS COI, then we will validate your access to the ROSS COI.
 - *You will receive an email from HSIN.*
 - *No other action will be required on your part other than to sign into HSIN and then the COI.*
 - *May need to work through HSIN Help desk to reset your password/HSIN access*



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Homeland Security Information Network ROSS Community of Interest (COI)

ROSS will be **nominated** (*get a HSIN account*) and **validated** (*given access to ROSS COI*) for access.

3 Cases (cont.):

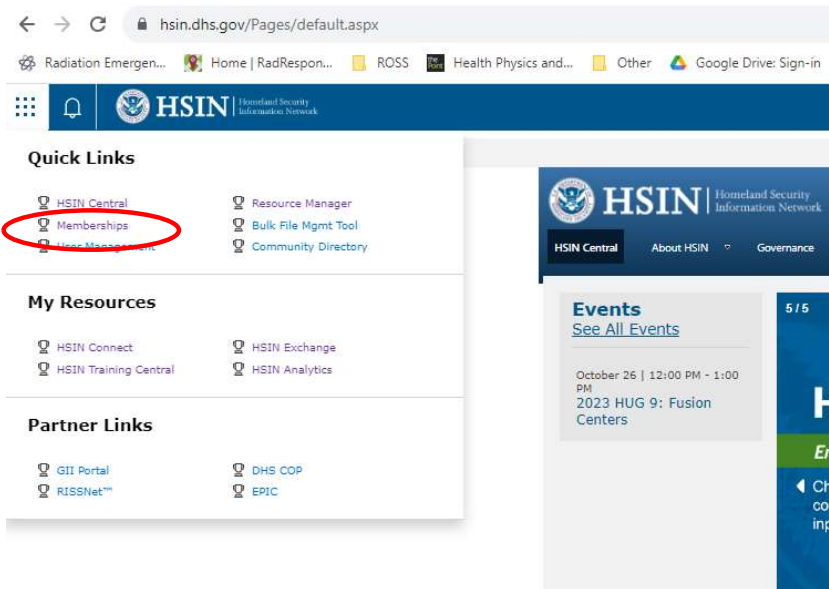
3. IF you do NOT have a HSIN account, you will be nominated and receive an email from HSIN
 - Validation process includes identify verification.
 - DHS uses credit agency identity self-verification
 - We are NOT running a credit check.
 - ID only –series of questions
 - IF you have a freeze on your credit, alternate identify validation will be conducted by contacting the supervisor you list.
 - » *IF you are retired or self employed, contact your ROSS State Coordinator to use as your supervisor reference.*
 - When HSIN account is complete, we will validate your membership in the COI



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Homeland Security Information Network ROSS Community of Interest

■ Accessing the ROSS COI from HSIN Home Page



HSIN Memberships

Your HSIN Memberships

Validation completed
271 out of 271

- CI Home
- CISA REGIONAL HOME
- SLTGGCC
- Connect
- Administration
- Emergency Services
- HSIN Central
- About HSIN
- Best Practices
- Contact
- FAQs
- Governance
- Policies
- HSIN Engage
- Partners
- Training
- INFRASTRUCTURE INFORMATION & RESOURCES (IIR)
- Critical Infrastructure Security and Resilience (CISR) Training Portal
- IDR
- Industry Engagement and Resilience
- NRMC - National Risk Management Center
- TSA Intel on HSIN CI
- UAS Cybersecurity and C-UAS
- National Joint Terrorism Task Force (NJTF)
- Nuclear
- Radiological Operations Support Specialists**
- SIRES
- CISA Exercises
- PCI



Homeland Security Information Network ROSS Community of Interest

ROSS COI Homepage

1. Menu
2. Announcements
3. Highlighted Content
4. Quicksearch

The screenshot shows the ROSS COI Homepage with the following elements highlighted:

- 1. Menu:** A red box highlights the left-hand navigation menu, which includes links such as Home, ROSS Read-Only Library, ROSS Collaboration Library, Announcements, ROSS Directory, Resources, Suggest Content, Access Request Dashboard, Recent, ROSS Discussion Board, and Site Contents.
- 2. Announcements:** A purple box highlights the 'Announcements' section, featuring a 'FOUO Reminder' by Jeffrey D. Semanick (JEFFREY.SEMANICK) and a 'ROSS Directory' announcement.
- 3. Highlighted Content:** A blue box highlights the 'Highlighted Content' section, which lists documents like 'Nuclear Detonation Response Guidance Planning for the First 72 Hours' and 'FEMA Planning Guidance for Response to a Nuclear Detonation'.
- 4. Quicksearch:** A green box highlights the search filters, categorized into 'Search By Event Type', 'Search By Focus Area', and 'Search By Training Type'.



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Homeland Security Information Network ROSS Community of Interest

ROSS Read Only Library

1. Searchable Metadata Field
2. Search results

The screenshot displays the ROSS Read-Only Library interface. On the left, a sidebar contains navigation links and a 'Key Filters' section. A red box labeled '1' highlights the 'Key Filters' section, which includes dropdown menus for 'Event Type' (set to 'RDD'), 'Focus Area', 'Product Type' (set to 'Guidance Document'), 'Qualification Level', and 'Training Type'. The main content area, labeled '2', shows a table of search results with columns for 'Content type', 'Name', 'Event type', 'Focus Area', 'Product type', 'Qualification Level', 'Training type', 'User Role', and 'Summary'. Three results are visible, including 'Guidelines for Handling Decedents Contaminated with Radioactive Materials' and 'HPS Journal-Updated_Emergency_Response_Guidance_for_the_First_48 hours'.



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Homeland Security Information Network ROSS Community of Interest

BROWSE

CI Home About CI Content Providers Resources Sector Overviews

ROSS Collaboration Library

Home

*Only documents associated with ACTIVE projects will display below. Before uploading documents, please ensure they are associated with an active project.

[View Project List](#)

Click here to create an alert

[New](#) [Upload](#) [Sync](#) [Share](#) [More](#)

Active Projects All Documents Inactive Projects Find a file

✓ Edit	Name	Current Status	App
Project Name : (20)			
Project Name : Nuc Det Briefs (2)			
	Ukrainian Rad Haz Situation Brief (Open source)	Final	
	Nuc Det Brief using Rad Hazard Tool	Final	
Project Name : REP COVID Considerations (6)			
	Compensatory_Considerations_for_Radiological.6	Final	
	team_Delta_initial_message	Rough	
	CIPAC Presentation	Final	
	Board Resolution	Final	
	Iowa REP Compensatory Actions - to EPA	Final	
	CT REP Compensatory Actions	Final	
Project Name : ROSS Beta (4)			



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Homeland Security Information Network ROSS Community of Interest

ROSS Directory

1. Update your info
2. Search for A ROSS
3. Email and Phone Numbers

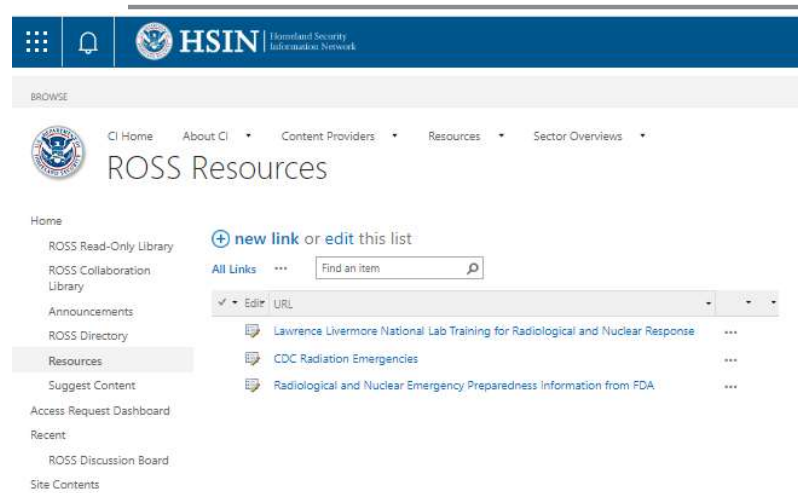
The screenshot shows the HSIN ROSS Directory interface. At the top, there is a navigation bar with the HSIN logo and 'Homeland Security Information Network' text. Below this is a 'BROWSE' section with a search bar and a 'Find an item' input field, which is circled in purple and labeled with a circled '2'. The main content area displays a table of community members. The table has columns for 'First Name', 'Last Name', 'Job Title', 'Organization', 'E-Mail', 'Business Phone', and 'Mobile Number'. The row for 'Jeff Semancik' is highlighted with a red box and labeled with a circled '1'. To the right of the table, a blue box labeled with a circled '3' encloses the 'E-Mail' and 'Business Phone' columns for the highlighted row.

First Name	Last Name	Job Title	Organization	E-Mail	Business Phone	Mobile Number
Ken	Yale	Center for Radiological Emergency Management Director	US Environmental Protection Agency	yale.kenneth@epa.gov	202-566-2972	702-715-2436
Dustin	Willett	Emergency Manager	Rapid City / Pennington County Emergency Management	dustin.willett@westrivervat.sd.gov	605-394-2185	605-381-2198
Gary	Spichiger	Associate Radiation Safety Officer	Georgia Institute of Technology	gary.spichiger@ehs.gatech.edu	404-894-8847	770-364-0824
William	Smith	Epidemiologist	Maricopa County Department of Public Health	william.smith@maricopa.gov	602-372-2665	602-527-0108
Jeff	Semancik	Director, Radiation Division	CT DEEP	jeffrey.semancik@ct.gov	860-424-4190	860-597-3628
Chris	Salz	Radiological Branch Chief	Ohio Emergency Management Agency	cmsalz@dps.ohio.gov	614-799-3675	614-398-8811
Adela	Salame-Alfie	Senior Service Fellow	CDC Radiation Studies Section	ASalameAlfie@cdc.gov	770-488-3677	470-295-1497

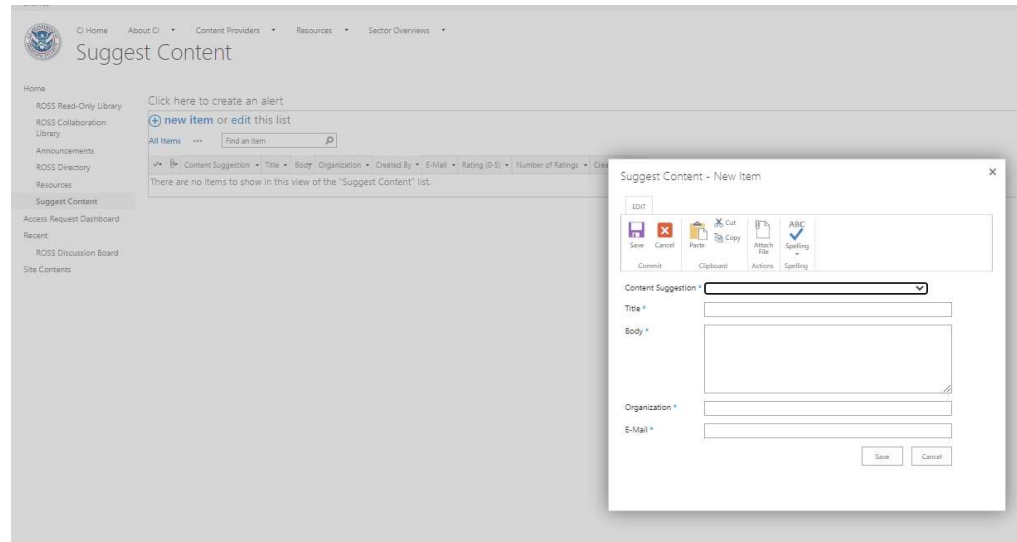


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Homeland Security Information Network ROSS Community of Interest



The screenshot shows the HSIN (Homeland Security Information Network) website. The top navigation bar includes the HSIN logo and the text "Homeland Security Information Network". Below the navigation bar, there is a "BROWSE" section with a search bar and a list of links: "CI Home", "About CI", "Content Providers", "Resources", and "Sector Overviews". The main content area is titled "ROSS Resources" and features a "new link or edit this list" button. Below this, there is a search bar and a list of resources, including "Lawrence Livermore National Lab Training for Radiological and Nuclear Response", "CDC Radiation Emergencies", and "Radiological and Nuclear Emergency Preparedness Information from FDA". A sidebar on the left contains a "Home" section with links to "ROSS Read-Only Library", "ROSS Collaboration Library", "Announcements", "ROSS Directory", "Resources", "Suggest Content", "Access Request Dashboard", "Recent", "ROSS Discussion Board", and "Site Contents".



The screenshot shows the "Suggest Content" page on the HSIN website. The page title is "Suggest Content" and it includes the same navigation bar as the previous screenshot. The main content area has a "Click here to create an alert" link and a "new item or edit this list" button. Below this, there is a search bar and a message stating "There are no items to show in this view of the 'Suggest Content' list." A modal window titled "Suggest Content - New Item" is open, showing a form with the following fields: "Content Suggestion" (a dropdown menu), "Title *" (a text input field), "Body *" (a large text area), "Organization *" (a text input field), and "E-Mail *" (a text input field). The modal window also includes a toolbar with icons for "Save", "Cancel", "Print", "Copy", "Paste", "Attach File", and "Spelling".



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Homeland Security Information Network ROSS Community of Interest

The screenshot shows the HSIN website interface. At the top, there is a navigation bar with the HSIN logo and text 'Homeland Security Information Network'. Below this is a secondary navigation bar with 'BROWSE' and 'LIST' tabs. The main content area features a breadcrumb trail: 'CI Home > About CI > Content Providers > Resources > Sector Overviews'. The page title is 'ROSS Discussion Board · Monitoring done for CM from war in Ukraine'. On the left, there is a sidebar menu with items like 'Home', 'ROSS Read-Only Library', 'ROSS Collaboration Library', 'Announcements', 'ROSS Directory', 'Resources', 'Suggest Content', 'Access Request Dashboard', 'Recent', 'ROSS Discussion Board', and 'Site Contents'. The main post area shows a post by 'Jeffrey D. Semancik (JEFFREY.SEMANCIK)' with a profile picture icon. The post text reads: 'CT is doing the following to monitor for any potential rad consequences from war in Ukraine: - weekly air samples for iodine - fixed monitor monitoring - collecting rain sampel and analyzing for gross alph/beta'. Below the text, it asks 'Is anyone else monitoring?' and shows a timestamp 'A few seconds ago' with 'Reply', 'Edit', and a three-dot menu icon. At the bottom of the post area, there is a text input field with the placeholder 'Add a reply'.



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Homeland Security Information Network ROSS Community of Interest

- CRCP coordinated funding and support from DHS Cyber & Infrastructure Security Agency (CISA) – Nuclear Sector Coordinating Council
- Benefits
 - Access for all ROSS (don't need .gov email)
 - Vetted membership
 - FOUO
 - Searchable meta-data
 - Professional support



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ROSS Program Updates

Bill Irwin, ScD, CHP, FEMA Type 1 ROSS



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Any Questions:

Contact: william.Irwin@vermont.gov

Homeland Security/Emergency Response Committee 4 Goals

- Get the RDD and NucDet Virtual Evaluation Scenario Tool (VESTs) out.
- Get ROSS into other activities where competencies can be built.
- Get our ROSS rosters accurate.
- Metrics to gauge our success.
- Help more ROSS complete tasks and advance by type.
- Meet the recommendations of the RAND Report.
- Develop sub-committees to share all the work of cadre management.



Get the RDD & NucDet Virtual Evaluation Scenario Tool (VEST)s out

- This is our highest priority.
 - PER-388, the initial ROSS class is just the beginning.
 - To be a competent ROSS, like lost other roles, you must practice.
 - Wildland fire, urban search and rescue, incident management teams and other emergency resources have frequent opportunities to complete tasks and advance by Type.
 - ROSS do not have these opportunities without the exercises and the VESTs.
 - One of our ROSS advancing by Type this month obtained part or all of 39 tasks with the nuc det VEST in 2021.
 - We need both VESTs to be offered many times each year.



Get ROSS into other activities where competencies can be built

- We have had great success getting a lot of people to attend the initial ROSS course, PER-388.
- We have excellent support from 32 states where the authority having jurisdiction has identified a State ROSS Coordinator.
- We are beginning to see more initial ROSS courses on the horizon. We are, however, unable to provide more opportunities for ROSS to build their competencies.
- Three opportunities being developed:
 - NREP, CRCPD and HPS courses for 2024. The subject this year is nuclear power plant response and recovery.
 - ROSS for CM25 – this will mostly be for ROSS in Michigan and nearby states.
 - The DOE NNSA Nuclear Emergency Support Team (NEST) Reserve Corp – in the earliest stages of development.



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Get our ROSS rosters accurate

- We want to keep trained people informed of developments and offer them opportunities for exercises, training and other meaningful competency development.
- An accurate email address is vital to this.
- We want to continue using the Homeland Security Information Network (HSIN) ROSS Community of Interest (COI) for part of this.
- We will also be able to do more using our newest tool – MissionEdge.



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Metrics to gauge our success

- We have a ROSS Map with 260 names on it. Those are the people who have attended PER-388, the Initial ROSS Class.
- About one-third are active, for example, going to exercises, attending quarterly calls, getting tasks signed off, advancing by type and working on training courses provided at NREP, CRPCD and HPS.
- We ought to know whether the other two-thirds are still interested.
- Other metrics include:
 - Exercise participation
 - PTB task sign-off
 - VEST completions

Quarterly call attendance

Advancement by type



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Help more ROSS complete tasks and advance by type

- We have had several ROSS advance by type over the last several months.
- We have shown numerous ways by which you can document your task sign off using the Position Taks Book (PTB).
- Our Advancement and Certification Subcommittee is working on ways to help others use these documentation methods to get credit for past work, training, exercises, and incident response experience.
- They are also looking at ways to encourage completion of the Quarterly Problem Sets as a simple way to get some sign-offs.



Meet the recommendations of the RAND Report

- The RAND Report recommended:
 - Each state have at least one Type 1 ROSS as well as three or more additional Type 2, 3 or 4 ROSS with more in those states with large populations, geographic areas or higher risk targets.
 - That there be 360 or more total active ROSS on an on-going basis.
 - We will have to train about 1,000 people who will become active ROSS and keep that number at a steady state.

Develop sub-committees to share all the work of cadre management

- We have had a good number of ROSS step up to take the lead on subcommittees.
- We could use more ROSS to help with all the work each sub-committee is taking on.
- If you are interested, contact me at william.Irwin@vermont.gov.

ROSS Program Fact Sheet

Radiological Operations Support Specialist (ROSS)

Radiological Operations Support Specialists (ROSS) provide technical expertise to state, local, tribal, and territorial (SLTT) jurisdictions as radiological and emergency response experts.

A ROSS is a radiological/nuclear incident subject matter expert (SME) that acts as a state and local resource to assist emergency managers and first responders in navigating the unique challenges of radiological incidents and emergencies. By supporting response and planning at the local level, the ROSS program strengthens radiological/nuclear incident preparedness and response at the SLTT and national levels. Qualified through the National Qualification System (NQS), ROSS are trained to integrate into the Incident Command System (ICS) and understand federal tools and software to support state and local responders, emergency managers, and decision-makers. The NQS documents for the ROSS are the [509](#) and [ETB](#).

ROSS Capabilities

- Gathers, synthesizes, and explains technical radiological/nuclear incident information
- Interprets data products and assists with relevant recommendations
- Provides knowledge of federal assets, such as the Interagency Modeling & Atmospheric Center (IMAAC), CBRNResponder, and the Federal Radiological Monitoring Assessment Center (FRMAC)

Who Can be a ROSS?

Candidates for the ROSS program are individuals with education, training or experience in radiation-related fields, such as health physics, nuclear engineering or radiological science.

Specific requirements are outlined by the FEMA National Qualification System (NQS) 509. The 509 describes ROSS qualifications, including education, training, experience, physical/medical fitness, currency, and professional/technical licenses/certifications requirements.

2014 ROSS Program begins → 2016 First ROSS training course held → 2018 CTOS begins teaching PER-388 → 2019 First ROSS issued and qualification review conducted → 2021 Pilot of the first Virtual Evaluation Scenario Tool (VEST)

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July 2023 1

ROSS Program Fact Sheet

Becoming a ROSS

To become a ROSS, candidates must take the ROSS Initial Training Course (PER-388), offered by Counterterrorism Operations Support (CTOS). CTOS offers the ROSS Initial Training Course as a resident course, in Nevada, and as a mobile course when requested. Check the schedule [here](#).

After taking the initial training course, students contact FEMA.ROSS@fema.dhs.gov to receive their official [Position Task Book \(PTB\)](#) and become a Type 4 ROSS. To become a Type 1, 2, or 3, ROSS must complete tasks in their PTB and receive evaluator signatures. Once all relevant tasks are signed off, ROSS work with their Authority Having Jurisdiction (AHJ) to receive official certification. This process is detailed in ROSS policy documents and supported by the ROSS Working Group, ROSS Task Force Leaders, State ROSS Coordinators, and the Conference of Radiation Control Programs Directors (CRCPD). There is a [ROSS Webpage](#) with more information on the process for becoming a ROSS.



Bill Irwin serving as the ROSS in a large-scale Department of Energy (DOE) radiological/nuclear incident exercise (Cobalt Magnet 2019).

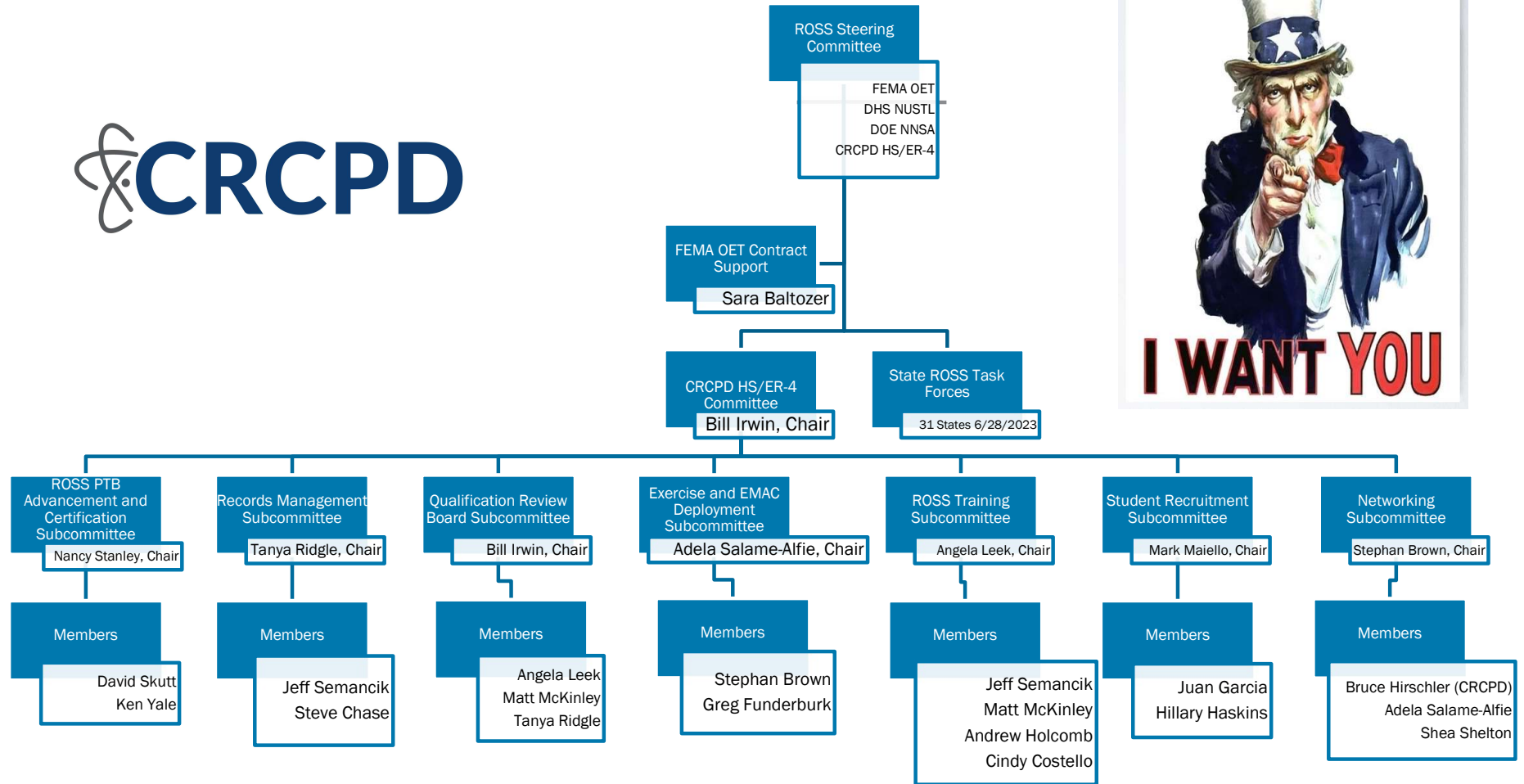
Becoming a ROSS benefits your community through enhanced ability to integrate into SLTT and regional planning and preparedness activities. It also benefits your career in emergency planning and management.

If you're interested in becoming a ROSS, working with a ROSS, incorporating ROSS into an exercise or training, or additional information on the ROSS program, please reach out to FEMA.ROSS@fema.dhs.gov.

Learn more at fema.gov July 2023 2

https://www.fema.gov/sites/default/files/documents/fema_emerging-threats-ross.pdf.





Some of the Sub-committee work to date

- The Competency Maintenance team is now the ROSS Training Subcommittee
 - They develop and collect the Competency Maintenance Problem Sets.
 - They notify ROSS of exercise and training opportunities.
- The ROSS Web Presence team is now the Networking Subcommittee
 - They maintain the CRCPD ROSS Web Page.
 - They will improve our LinkedIn site and are developing other social media outlets and connections for the ROSS.
- The other new subcommittees are holding kickoff meetings now.



ROSS Advancing by Type

Bill Irwin, ScD, CHP, FEMA Type 1 ROSS



FEMA

Any Questions:

Contact: william.Irwin@vermont.gov

We are proud to celebrate four more ROSS advancing by type

- Jason Callahan, Texas, FEMA Type 1 ROSS
- Danette Fennessy, Texas, FEMA Type 3 ROSS
- Matt Miller, Texas, FEMA Type 3 ROSS

- Chris Moore, Texas ROSS Task Force Leader, FEMA Type 1



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We are also looking for other ways to celebrate our success

- The RAND Report described how volunteer organizations are the hardest to build and sustain.
- Since we do not pay you to train others, participate in exercises, write plans, etc., we need other ways to recognize you and your colleagues in the ROSS Cadre.
- One way is with ROSS shirts. We have added the way to get them on the next slide.
- Any ideas? Send them to me william.Irwin@vermont.gov.



How to get ROSS shirts – great for training and exercises!

- Fancy Stitching, 3000 N. 13th St., Suite 200, Carter Lake, IA 51510,
- Telephone Number: 402-599-0098.
- Send an email, show them the emblem (look right), they will make them and charge your credit card over the phone.
- You can ask them to add your name, too.
- Don't get it with Program Manager!



FEMA

ROSS Competency Maintenance

Angela Leek, CHP, FEMA Type 1 ROSS



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Any Questions:

Contact: angela.leek@summitet.com

We have had numerous ROSS complete the June 2023 Quarterly Competency Problem Set. We are still reviewing them for task sign-off.

- Here they are again for anyone who still wants to work on it.
- We are also asking the ROSS Marketing Sub-Committee to put all the old Competency Maintenance Problem Sets on the ROSS Webpage at <https://www.crcpd.org/>.
- This will allow any ROSS to go back and work on them get signed off for about a dozen tasks.



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ROSS Quarterly Problem Set – June 2023

ROSS Quarterly Problem Set	June 2023
Answers Due By:	8/31/2023
Submit Answers and Supporting Attachments to:	Your State ROSS Task Force Leader or Angela Leek – angelaleek@summitet.com Bill Irwin – william.irwin@vermont.gov Matt McKinley – mattheww.mckinley@ky.gov
Questions about problem:	Angela Leek – angelaleek@summitet.com Phone – (515) 229-8289
Task Sign Off Potential <i>Successful completion of this quarterly problem allows you to request signoff</i>	ROSS Position Task Book (PTB) Task #1, 9, 18, 19, 21, 24
Expected Answer Format	Two one- to two-minute briefings presented in person, via live teleconference or recorded in a video and sent to the reviewing ROSS.

Problem Set Instructions

1. Watch the eight Modeling Products – Web-based training videos at <https://responder.llnl.gov/training>

Web Based Training

Modeling Concepts

This narrated, self-running course is designed to teach basic modeling concepts for radiological and nuclear release scenarios. By the end of the course, students will understand basic functions of atmospheric plume dispersion and dose models, model benefits and limitations, use of models during an emergency, and how to use modeling products to guide emergency planning and response. Total course time is 2 hours and 5 minutes.

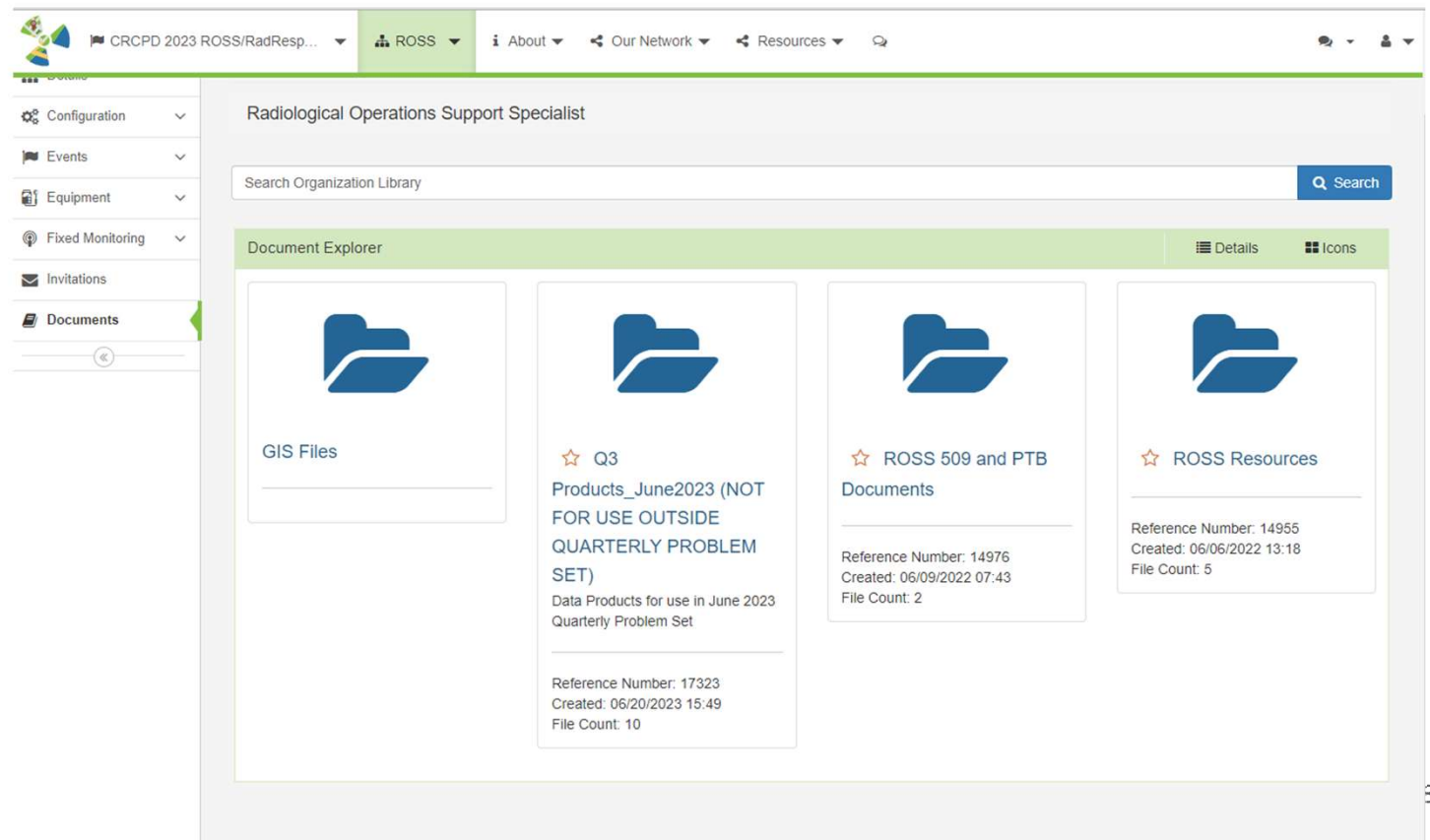
- Course Introduction (2 min)**
An overview of the course objectives and outline.
- 1. Modeling Concepts (14 min)**
Learn about the basic elements of atmospheric dispersion models, including model input parameters and assumptions, release characteristics, meteorological conditions, and atmospheric stability.
- 2. Types of Atmospheric Dispersion Models (14 min)**
Learn about five types of atmospheric dispersion models: the Gaussian plume model, the Gaussian puff model, the disk-tossler fallout model, the Lagrangian particle model, and the computational fluid dynamics model.
- 3. Dose Calculation Models (26 min)**
Learn about radiation dose concepts, dose pathways, and model parameters affecting dose calculations.
- 4. Model Verification, Validation, and Accuracy (7 min)**
Learn about verification and validation of dispersion models and causes of uncertainty in dispersion and dose models.
- 5. Protective Action Guides and Response Levels (11 min)**
Learn about protective action guides used in the US and how response levels are derived to convert them to values that can be directly measured in an incident.
- 6. Use of Measurements with Models (8 min)**
Walk through an example of using field measurements to adjust model input parameters in the model-measurement cycle.
- 7. Model Products (27 min)**
Learn about the different types of products that may be developed in a response.
- 8. Comparison of Different Models (16 min)**
Review two examples where different models are used for the same scenario, and learn about the causes of differences in the products developed.



Models help inform response planners of the potential impacts of hazardous material releases.

ROSS Quarterly Problem Set – June 2023

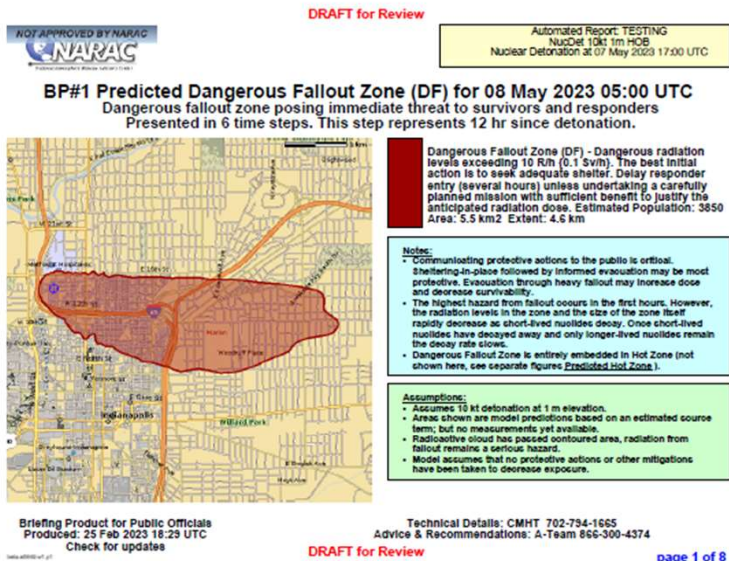
2. Access practice data products on radresponder.net under:
ROSS Organization – Documents – Q3 Products_June2023



ROSS Quarterly Problem Set June 2023

- Review the data products available, and select those appropriate to use for a 5-to-10-minute briefing to address the following situation:

It is T+ 3 hours after a nuclear detonation in Anywhere City, USA. The dose assessment team at the Emergency Operation Center has been asked to provide an overview of the standard maps and products that have just been delivered by the IMAAC. The public has currently been advised to shelter in place and workers are planning rescue missions into the affected area. **In addition to providing an overview of where the products came from and what situational awareness gained from the available products, decision-makers and mission planners have the following questions that need to be addressed in your presentation and verbal briefing:**

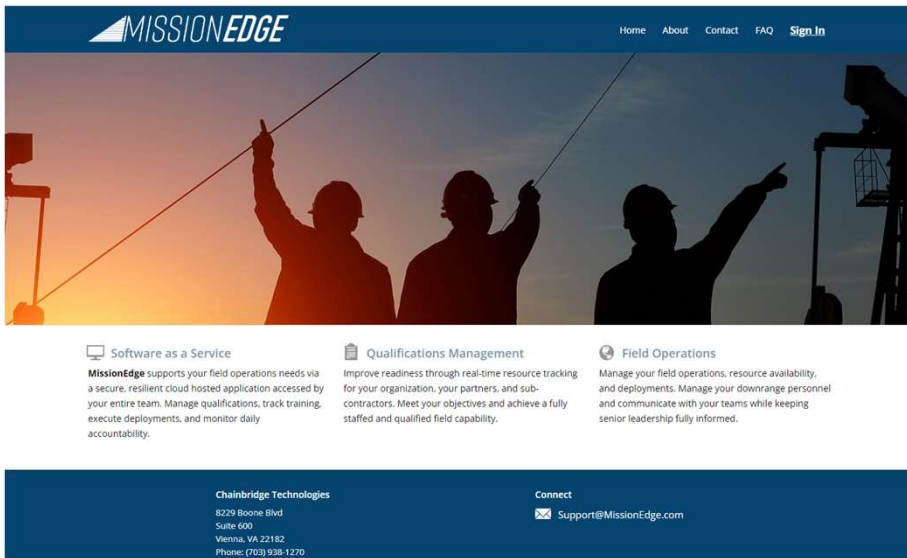


- What products should we be using or not using at this time
 - (T+3h and planning for T+12h)
- Where should emergency workers focus their rescue operations?
 - Are there any areas they should avoid?
 - How does timing affect their mission priorities?
- Should we evacuate the public in a radius around the detonation site now (T+3 hrs)?
 - If not, why?
 - When would be the optimal time to consider evacuating people from specific areas?
 - If yes, what radius distance and where should the people go?

REMEMBER – you can reach out to other ROSS for questions and assistance

For this Quarter's assignment:

Each ROSS should accept their accounts for MissionEdge and HSIN ROSS Community of Interest



You will receive an email invitation in the next couple of days. If you do not receive it by 10/1/2023, please contact angelaleek@summitet.com.

- There are tasks related to this in your PTB.
- It will help us sustain an accurate roster.
- If things change – employment, phone number, email – please log in and update
- HS/ER-4 will be putting all the old Quarterly call slides and Competency Maintenance Problem Sets on either HSIN or the CRCPD website,
- Thank you!



Closing Remarks

Jon Gill, PhD, FEMA Office of Emerging Threats



FEMA

Any Questions:

Contact FEMA-ROSS@FEMA.DHS.GOV