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 Fennesy, Matt Miller and Jason Flannigan, Type 3
- Closing Remarks – Jon Gill, FEMA OET
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.
Introduction to Mission Edge
Angela Leek, CHP, FEMA Type 1 ROSS

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 subcontractors. 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.

Connect

Support@MissionEdge.com

Chainbridge Technologies
8229 Boone Blvd
Suite 600
Vienna, VA 22182
Phone: (703) 938-1270
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
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
You are Requested to Deploy
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1 item pending your approval
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Open PTB
Incident Commander (FEMA NQS) - Type IV
0% Complete

Trainee/Candidate
Gillette, Kelly

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

Showing 1 to 10 of 23 entries
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

Manage your Deployments
## Deployment Details

You are Requested to Deploy
Use the buttons above to change your deployment status.

<table>
<thead>
<tr>
<th>Deployment Info</th>
<th></th>
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</thead>
<tbody>
<tr>
<td><strong>EVENT</strong></td>
<td>Iowa IPX</td>
</tr>
<tr>
<td><strong>DUTY STATION</strong></td>
<td>State EOC</td>
</tr>
<tr>
<td></td>
<td>SEOC</td>
</tr>
<tr>
<td></td>
<td>Johnston, IA 50000</td>
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<tr>
<td><strong>EVENT DEPLOYMENT NOTES</strong></td>
<td>Request for ROSS to support dose assessment at SEOC in Iowa for IPX</td>
</tr>
<tr>
<td><strong>DEPLOYMENT NOTES</strong></td>
<td>Individual notes about when to arrive, who to report to, duty specific items</td>
</tr>
<tr>
<td><strong>DEPLOYED POSITION</strong></td>
<td>Radiological Operations Support Specialist (FEMA NQS) - Type I</td>
</tr>
<tr>
<td><strong>SCHEDULED ARRIVAL DATE</strong></td>
<td>9/28/2023</td>
</tr>
<tr>
<td><strong>SCHEDULED DEPARTURE DATE</strong></td>
<td>9/30/2023</td>
</tr>
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</table>
Manage your Contacts
## Contact Details

### Email Addresses

<table>
<thead>
<tr>
<th>Email Address</th>
<th>Work</th>
<th>Primary?</th>
<th>Receive Notifications?</th>
</tr>
</thead>
<tbody>
<tr>
<td><a href="mailto:angelaleek@summitet.com">angelaleek@summitet.com</a></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Phone Numbers

<table>
<thead>
<tr>
<th>Number</th>
<th>Type</th>
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</thead>
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<tr>
<td>+1 515 229 8289</td>
<td>Personal</td>
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### Location

<table>
<thead>
<tr>
<th>Country</th>
<th>State</th>
<th>City</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States</td>
<td>Iowa</td>
<td>Des Moines</td>
</tr>
</tbody>
</table>
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?
Review of the HSIN ROSS Community of Interest

Jeff Semancik, FEMA Type 1 ROSS

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
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
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.
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
- SEPTPOC
- Connect
- Administration
- Emergency Services
- HSIN Central
- About HSIN
- Best Practices
- Contact
- FAQs
- Governance
- Helpdesk
- HSIN Engage
- Partners
- Training

INFRASTRUCTURE INFORMATION & RESOURCES (IIR)
- Critical Infrastructure Security and Resilience (CISR) Training Portal
- Federal Coordinating Council for Critical Infrastructure and Key Functions (FCCIC)
- Industry Engagement and Resilience
- NRC - National Risk Management Center
- TSS IMAT on HSIN C2
- USI (US Industry and Critical Infrastructure)
- Federal Agency Threat Analysis Task Force (FATT)
- Anthrax Operations Support Specialization
- CISA Exercise
- DCS Exercise
- FOI

Federal Emergency Management Agency 22
ROSS COI Homepage

1. Menu
2. Announcements
3. Highlighted Content
4. Quicksearch
ROSS Read Only Library

1. Searchable Metadata Field
2. Search results
Home
ROSS Collaboration Library

Click here to create an alert

Only documents associated with ACTIVE projects will display below. Before uploading a:

View Project List

Project Name: (50)

- Project Name: Now Dell Briefs (3)
  - Ukrainian Rad Mac Situation Brief (Open source) ... Final
  - Nuc Det Brief using Rad Hazard Tool ... Final

- Project Name: REP COVID Considerations (4)
  - CompSessory Considerations for Radiological ... Final
  - Team DERP Initial Message ... Rough
  - CIPD Presentation ... Final
  - Board Resolution ... Final
  - Iowa REP Compensatory Actions - To EPA ... Final
  - CT REP Compensatory Actions ... Final

- Project Name: ROSS Ben...
ROSS Directory

1. Update your info
2. Search for A ROSS
3. Email and Phone Numbers
Homeland Security Information Network ROSS Community of Interest
ROSS Discussion Board: Monitoring done for CM from war in Ukraine

Jeffrey D. Semancik (JEFFREY.SEMANCIK)

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 samples and analyzing for gross alpha/beta

Is anyone else monitoring?
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
ROSS Program Updates
Bill Irwin, ScD, CHP, FEMA Type 1 ROSS

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.
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 Netwerk (HSIN) ROSS Community of Interest (COI) for part of this.
- We will also be able to do more using our newest tool – MissionEdge.
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
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.

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

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 Fennesy, Texas, FEMA Type 3 ROSS
- Matt Miller, Texas, FEMA Type 3 ROSS
- Chris Moore, Texas ROSS Task Force Leader, FEMA Type 1
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!
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.
ROSS Quarterly Problem Set – June 2023

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

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 6 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-tower 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 Guidance 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.
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

3. 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:

1. What products should we be using or not using at this time
   a. (T+3h and planning for T+12h)

2. Where should emergency workers focus their rescue operations?
   a. Are there any areas they should avoid?
   b. How does timing affect their mission priorities?

3. Should we evacuate the public in a radius around the detonation site now (T+3 hrs)?
   a. If not, why?
   b. When would be the optimal time to consider evacuating people from specific areas?
   c. 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

- 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!

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.
Closing Remarks
Jon Gill, PhD, FEMA Office of Emerging Threats

Any Questions:
Contact FEMA-ROSS@FEMA.DHS.GOV