



Hostile Action Based (HAB) Exercises

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National Radiological Emergency Preparedness Conference

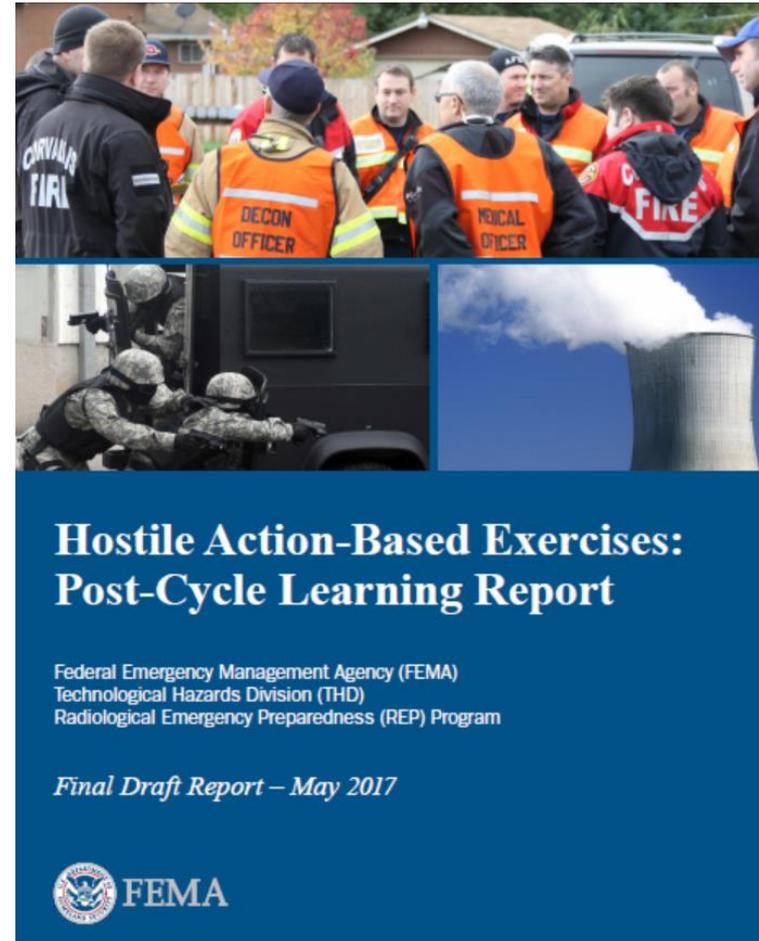
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Inaugural HAB Cycle

- Proved beneficial in driving player response to the crisis management aspect of an incident
- 62 successful exercises
- Outcome was the development of the HAB Exercises: Post-Cycle Learning Report



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General Strengths

- Mobilization of response personnel
- Communication between the ICP and OROs
- Implementation of NIMS and the ICS by ICs
- Demonstration of solid direction and control within the ICP by ICs
- Demonstration of the knowledge and ability to analyze and use competing finite resources by ICs



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General Areas for Improvement



- Implementation of Emergency Worker Exposure Control training and familiarity issues for first responders.
- Coordination of PADs in order to keep the ICP and EOC apprised of actions that were already taken.
- ICP communications and coordination with the EOC and Utility Liaisons.



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2021-2029 HAB Cycle

- Next cycle will include a radiological release that exceeds EPA PAGs at the site boundary
- Push the players to evaluate the safety of first responders from a radiological perspective and will also create more operational and safety challenges for ICs
- OROs and Licensees will start the cycle in 2021, with planning beginning in 2019-2020



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Reasonable Assurance Alignment Framework (RAAF)

- Emphasizes alignment between core capabilities and NUREG-0654
- Further strengthen the preparedness community
- Builds response capabilities
- Develops a two year game plan
- Assistance from FEMA will be available to the REPP communities (OROs)



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Inaugural Cycle Key Observations

- Best practices and lessons learned were organized by the following core capabilities:
 - Operational Coordination
 - Operational Coordination – Training
 - Operational Coordination – Exercise
 - On-Scene Security, Protection, and Law Enforcement
 - Operational Communication
 - Logistics and Supply Chain Management
 - Environmental Response/Health and Safety



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Operational Coordination

Best Practices

- Establishing secure bridge line or open line of communication between EOC, utility, and ICP
- Displaying WebEOC or tactical logs on EOC and ICP walls



Lessons Learned

- Validating reception of verbal and written communications after decisions regarding ECL changes, PARs, and PADs have been made
- Ensuring availability of SMEs to the SEOC and ICP decision makers
- Pre-identify requirements for off-site law enforcement to support on-site security.

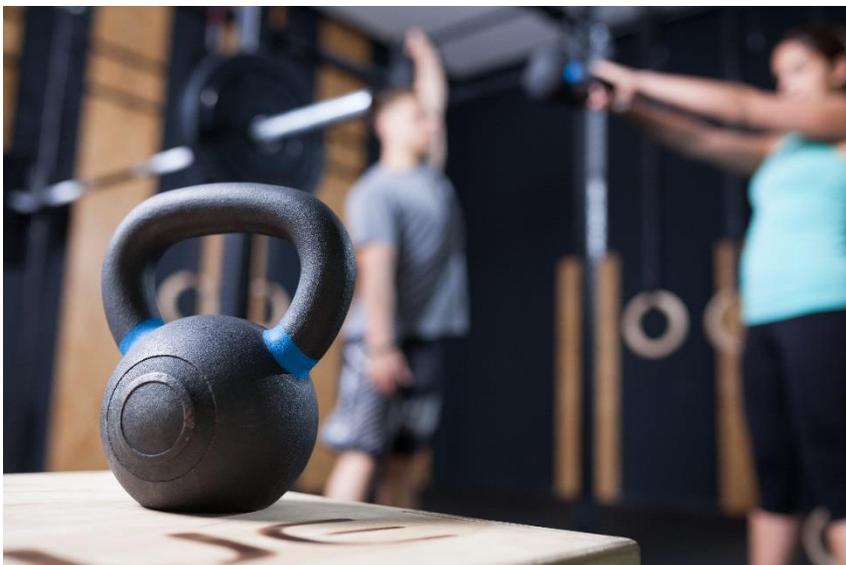


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Operational Coordination – Training

Best Practices

- Provide consistent ICS and NIMS training
- Expand PIO training for HAB scenario-specific messaging
- Provide REP Basics training as part of law enforcement and general onboarding for responding organizations



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Operational Coordination – Exercise

Best Practices

- Sustain drills and tabletops to continue strengthening capabilities



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Lessons Learned

- Refine the inject process to ensure injects are provided to both the ICP and State Emergency Operations Centers in a timely manner
- Review injects for accuracy, realistic transmittal, and appropriate source of origination
- Allow time in the exercise scenario for the IC to demonstrate the implementation procedures before the EOC assumes command of the operation



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On-Scene Security, Protection, and Law Enforcement

Best Practices

- Value add for emergency management and law enforcement coordinated training, drills, and exercises
- Real world applications for HAB



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Lessons Learned

- Avoid contamination of the crime scene
- Importance of training and drills for dosimetry, turn-back limits, and KI-ingestion
- Ensure ICP has access to a radiological officer
- Federal partners should participate in the planning process

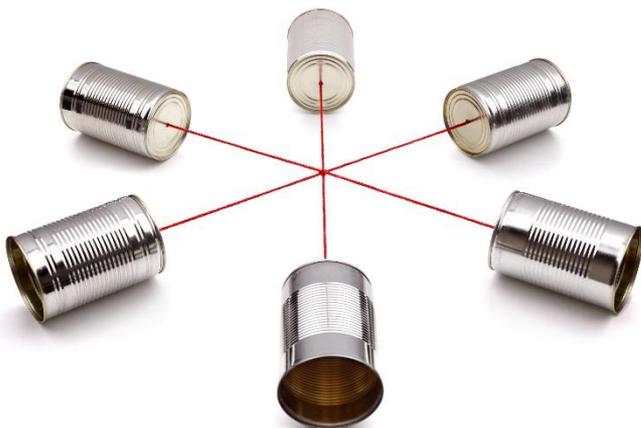


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Operational Communications

Best Practices

- Providing ICs and responders with radios to communicate with on-site security
- Using a secure bridge line between the EOC and on-site security



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Lessons Learned

- Ensure plans reflect the needed communication links for the IC to communicate with the utility EOF and ERO



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Logistics and Supply Chain Management

Best Practices

- Preparedness for technology failures
- Innovative use of technology such as development of smartphone applications



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Environmental Response/Health and Safety

Best Practices

- Utilization of HAZMAT staging principles
- Guidance for plant employees shelter-in-place and transition to evacuations



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Lessons Learned

- Law enforcement and licensee coordination for tracking of on-site and off-site employees
- Determine processes for supplying dosimetry for personnel in the area prior to staging and integration with on-site equipment and dose limit procedures
- Determine dose limits and KI ingestion for tactical team members for on-site operations



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Next Steps Summary

- Familiarization tours offered by the utility partners
- Prepare for radiological hazard
- Participation in licensee drills
- Training evolutions
- Tabletop exercises



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Questions



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