

TRI-STATE FULL – SCALE HAZARDOUS MATERIALS EXERCISE 2011



Presented by:

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HMEPG FY 2010-11

EXECUTIVE SUMMARY

- **Multi state exercise held to validate principles developed during a Workshop and Tabletop Exercise.**
- **An Incident Action and Communications Plan provided the framework for managing multijurisdictional, multidisciplinary operations.**
- **The Full-Scale Exercise was the third in a series of events that promotes expansion of lessons learned from discussion based training.**
- **Local, state and federal agencies participated.**

EXERCISE OVERVIEW

- **This full-scale deployment exercise took place on Saturday, September 10, 2011 at the Port of Providence, RI**
- **The FSE examined the capabilities of responders during a multi-state incident in:**
 - **Communications**
 - **Environmental Health**
 - **Fire & Hazmat Response/Mitigation**
 - **Incident Management**

EXERCISE OVERVIEW

- **The scenario challenges responders with derailed railway tank cars containing Ethanol.**
- **History demonstrates that more than 2 million gallons of denatured Ethanol is transported through the area by rail, barge and tractor trailer each week.**
- **Ethanol is a colorless flammable liquid that is extremely volatile and soluble in water.**
- **Ethanol fires require the application of alcohol resistant aqueous film forming foam (AR-AFFF).**

EXERCISE OVERVIEW

- Responders were required to demonstrate the application of foaming agents.
- Different exercise sites were established for fire fighting and hazmat mitigation.
- Participants received a tour of Providence Motiva facility





Staging @ Conley Dock

95

Moliva Site

Ethanol Fire Site

HAZMAT Site

Google
© 2010
Florida Point Dr

Byrfield St
Ocean St
Rugby St
Nebraska St
Bundell St
Cass St
Porter St
Johnson St
Ellenfield St

Ernest St
Chapman St
Baker St
Tennessee Ave
Georgia Ave

Terminal Rd

Shipyard St

Sardinia Rd

SCENARIO

- ❖ This exercise simulated a train derailment in a multijurisdictional area with two separate venues allows responders to practice response techniques.
- ❖ Participants reported to staging area and received an exercise briefing.



PARTICIPANTS

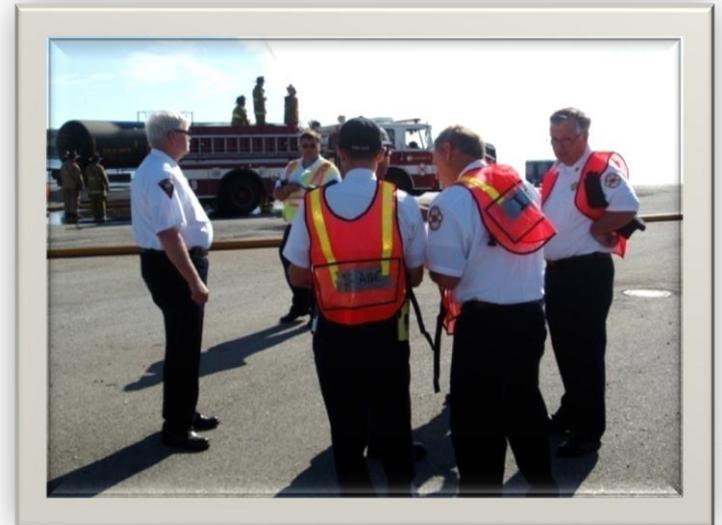
- CCRRIT
- Groton FD
- Norwich FD
- CT DEEP
- CT Fire Academy
- Region 4 IMT
- Mohegan Tribe FD
- Mystic FD
- New London FD
- Pfizer FD
- Warwick FD
- Woonsocket FD
- Providence FD
- Cranston FD
- East Providence FD
- Johnston FD
- Valley Falls FD
- Mass DEP
- P& W Railroad
- RI DEM
- RI EMA
- USCG
- US EPA Region 1
- OSHA

ANALYSIS OF CAPABILITIES

- **The HSEEP Exercise & Evaluation Guides were utilized by field evaluators to document observation. Evaluators were not grading operations.**
- **Evaluator comments were reviewed and a Draft After Action Report and Improvement Plan assembled and distributed to participating agencies.**

ANALYSIS OF CAPABILITIES

- The following areas were monitored by exercise evaluators:
 - Staging Area
 - Fire Response and Tactical Operations
 - Incident Management
 - Hazmat Mitigation



EXERCISE CONCLUSIONS

- **The major strengths identified during this exercise are as follows:**
 - **The Communications Plan developed during earlier exercise activities supported all full-scale response activities.**
 - **Connecticut and Rhode Island responders have sufficient communication capabilities to support interoperability on scene of a large fire and Hazmat incident.**

EXERCISE CONCLUSIONS

- **The Connecticut and Rhode Island Foam Task Force teams were well equipped with trained personnel, resources and equipment to effectively respond to the incident.**
- **The Connecticut and Rhode Island HazMat teams were well equipped with trained personnel, resources and equipment to effectively respond to the incident.**
- **Responding units were well coordinated.**

EXERCISE CONCLUSIONS

- **Primary areas for improvement are:**
 - **The Marine Task Force had difficult time spraying water onto the railcars without putting their vessels and personnel in jeopardy with adjacent structures such as the pier seawall.**
 - **Standard hazard assessments should be followed prior to putting vessels into areas where a hazardous atmosphere could endanger the boat as well as the crew.**

EXERCISE CONCLUSIONS

- **At the Hazmat venue the older style railcar created a problem with the application of the Chlorine Institute Level C Kit. The RI & CT Hazmat teams should consider purchasing a Midland Chlorine Kit to address these circumstances.**
- **Additional joint inter-state training and exercise events are recommended to continue to validate interoperability, especially with regards to communications.**

EXERCISE CONCLUSIONS

- **The Exercise Improvement Plan recommends:**
 - ✓ **Continuation of multi-state training and exercises to improve continuity of operations.**
 - ✓ **Develop standardized decontamination procedures across state lines.**
 - ✓ **Further the development of Marine Strike Forces and train with land based departments.**

EXERCISE CONCLUSIONS

- ✓ **Consider purchasing standardized mobile command boards to improve on-scene accountability and tracking operations.**
- ✓ **Adopt a standardized data management program for logging atmospheric monitoring.**
- ✓ **Ensure law enforcement is included in all exercises.**
- ✓ **Encourage the use of a standardized personnel accountability system.**
- ✓ **Continue to seek state & federal funds for drills.**

HMEPG EXERCISE BUDGET

Expense	Projected	Actual
EX Administration	\$3000.00	\$1260.00
Evaluators	\$10,800.00	\$420.00
Command Systems	\$13200.00	\$9976.00
Transportation	\$1000.00	\$828.30
Printing Services	\$1500.00	\$1500.00
Hygiene Systems	\$800.00	\$963.00
Training References	\$5500.00	\$0
Exercise Rehabilitation	\$5000.00	\$0
Training Manikins	\$3900.00	\$0
Mileage Reimbursement	\$300.00	\$0
Total	\$45000.00	\$14947.30
Balance	\$30052.70	

This exercise would not have been a success without the dedication and professionalism demonstrated by the following individuals:

Jim Ball, State of Rhode Island DEM
Jim Gaffey, USEPA, Region 1
Gerald Goudreau, CT SERC
Assistant Chief Michael Dillon, Providence Fire Department
Nick Child, Massachusetts DEP
Andrew Zompa, P & W Railroad
Mike Brazel, FEMA Region 1
Neil Torres, CT DEEP
Assistant Chief Anthony Manfredi, Mystic Fire Department/CERRIT
Chief Ron Samuel, New London Fire Department
Fred Malaby, OSHA
Gary Ruggiero, CT DESPP

Thank - You

PLAN – TRAIN - EXERCISE



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