

EMERGENCY RESPONSE



Emergency Planning and Response

- Lessons Learned From Exercises & Events
- Emergency Responder Outreach Implementation



Lessons Learned From Emergency Response Exercises & Actual Events

Participation in API/AOPL Member Company Sponsored Drills/Exercises

□ Participation in Numerous API/AOPL Member Company Drills/Exercises

- Sunoco Logistics IMT Exercises
 - Boston, MA- P66
 - Toledo, OH- Marathon & Enterprise
 - San Jacinto, TX- Enbridge & Colonial
- P66- Idaho & Nederland, Texas
- Colonial- Birmingham, AL & Newport News, VA

□ ***Primary Lessons Learned:***

- Train, Train, Train- Don't allow other project influences to dictate training frequency
- Use Qualified Evaluators and document Lessons Learned
- Utilize ICS Software to minimize “re-work” or manual mistakes and use software on small releases to maintain familiarity

Ohio Gasoline Pipeline Release- Joint Responder/RP Shared Learnings Presentations

- ❑ Underground gasoline release in a municipal garage storage area.
- ❑ Vapors emitted into community.
- ❑ Products leached into a ditch which lead to a major River.

What went well?

- ❑ Fire Dept. responded quickly and evacuated a number of residents from a mobile home community.
- ❑ Fire Dept. built earth berms to contain the release prior to impacting the River.
- ❑ Company/contracted teams utilized underflow dams, aeration, sparging, in the ER phase.
- ❑ Unified Command worked well!



Ohio Gasoline Pipeline Release Joint Responder/RP Shared Learnings Presentations

□ *Primary Lessons Learned:*

- **Effective Public Awareness Outreach Programs do work!**
 - Established outreach programs such as the Paradigm, MERO, Field Orientation Tours.
- **Immediate actions taken by local responders was critical!**
- **Deploy and mobilize responders quickly & aggressively.**
 - Go heavy early on, demobilize as needed later.
- **Build collaborative partnerships with the local responders.**
 - Authentic, open, and responsive communications is a priority.
- **A well trained Incident Management Team (IMT) is critical.**
- **Providing the necessary pipeline awareness and emergency response training and educational materials for local responders, is essential.**

Western Pennsylvania - County Unified Command Exercise

- ❑ Collaborated with County EMA officials to develop a simulated third party strike on a LPG pipeline.
- ❑ Participants included; Fire, Hazmat, Public Safety, Law Enforcement, EMS, Public Utilities, and Local Government.
- ❑ Primary Objective – Identify how Unified Command would function across all ICS players.
- ❑ **Primary Lesson Learned:**
 - *Per County EMA: “There is a need for more Local and County involvement with “Unified Command” exercises.*
 - *Should include all industry types to strengthen UC process & relationships.*
 - *“Much to be learned by industry experience brought to the table”.*



Michigan Storage Terminal Tabletop Exercise

- ❑ Scenario: Lightning strike on gasoline storage tank with tank mixer flange failure and release.
- ❑ Participants included Municipal & Airport Fire Dept.
- ❑ **Primary Lessons Learned:**
 - **More Frequent FD Site Tours:** For pre-planning strategies and FD turnover.
 - **Site Access:** Identified that the terminal roadway to the tankage containment area would not support fire apparatus access or staging.

Actions: Within a month of the exercise, FDs toured the facility and were made aware of new processes from last visit.

Actions: The tankage roadway was widened to accommodate fire apparatus within a few months of the exercise.



DE Valley Co-Op Industrial Fire Group Equipment Deployment Exercise

- ❑ Cooperative membership of (5) industry companies (IFG) with fire fighting response capabilities.
- ❑ Simulated crude oil tank fire.
- ❑ Equipment Deployment Objectives:
 - Exercise & assess the ability to deploy IFG and Community resources in response to a simulated combustible/flammable liquid tank fire scenario.
 - Ensure interoperability of membership firefighting assets to operate safely and efficiently.
- ❑ ***Primary Lessons Learned:***
 - Command staff coordinated well with municipal & state agencies.
 - Successful equipment integration & operations - 52 min. execution of staging, equipment deployment, set-up and flow on targets.
 - Transparent & cohesive performance by IFG member companies to achieve objectives.



DE Valley Co-Op Industrial Fire Group (IFG) Equipment Exercise

Emergency Responder Outreach Programs

Building collaborative partnerships with emergency responders, and familiarizing them with pipeline assets, operations, response considerations, and contacts, is critical to an effective and efficient initial response.

Emergency Responder Pipeline Awareness Training/Table Top Exercises

- ❑ Completed at the request of community emergency responders, EMA/LEPC or Paradigm meetings.
- ❑ 2 hr. classroom training designed to heighten emergency responder pipeline awareness.
- ❑ Meals provided to encourage attendance.
- ❑ Training hosted by Company OPS/Maint. & HES.
- ❑ Training conducted by use of PowerPoint and use of displays and materials to educate responders.
- ❑ API/AOPL ER training materials are provided to responders to further enhance knowledge base.
- ❑ **Simulated scenario driven discussions and/or brief mini-tabletop exercises are used to engage discussions with responders.**
- ❑ Attendee evaluations completed to ensure training objectives are on target.
- ❑ Certificate of completion provided to attendees.



Emergency Responder Pump Station Orientation Training

- ❑ Encourage/invite primary and second in Fire Departments, local and/or County Hazmat, EMS, Law Enforcement, and EMA/LEPC members
- ❑ Classroom Training:
 - Pipeline awareness/operations/maintenance
 - Product characteristics
 - Control Center & Communications
 - Emergency response considerations
 - Utilize NGL response contractors to review response capabilities
 - Pipeline ER educational materials
- ❑ Pump Station Field Tour:
 - Safety considerations
 - Operational & equipment review of the station
 - Air monitoring equipment
 - Ingress/Egress



Emergency Responder Pump Station Field Tours

