Multi-location, Multi-Program Exercise - case study

Industry Sponsored Exercise Kent State Stark, Canton, OH August 13-15, 2013





Background

- Marathon Petroleum has been moving toward ever more complex exercises
- With DWH and Enbridge-Marshall releases, the bar had been raised a magnitude, or more. It also opened up opportunities to practice Unified Command
- Some past lessons learned identified a low involvement from Security/Intel Officers
- Annual drill meets PREP requirement, provides training through practice opportunity, and allows Marathon Petroleum to measure itself against the global response community



History – Yearly Top Tier Team Tabletop

- Earthquake Drill, Robinson, IL 2006
- SONS 07, Evansville Venue sponsor 2007
- Houston, Hurricane Drill 2008
- Multi-region Nexus, Huntington, WV 2009
- Offshore Blowout, Lafayette, LA 2010
- Multi-location Drill, Tampa & New Orleans 2011
- Multi-business Unit Drill, Galveston, TX 2012
- Security/Cyber/Spill Exercise, Canton, OH 2013



Exercise Overview

Multi-location, Multi-incident, Multi-program

- Multiple releases, caused by "IED & Cyber" attacks
 - Light Utica crude oil mixture from refinery tank overflowed into flood plain
 - -Heavy Dilbit mixture from a pipeline leaked into state scenic waterway
- Tier two teams briefed larger Unified team in a transition meeting
- Two full planning cycles in objectives; only one completed
- Law enforcement integrated with Security/Intel/IT section
- Organization and section specific goals
- One press briefing meeting



Planning the Exercise

HSEEP lite – More meetings, more overlap in agenda

- Planning meetings held at Refinery, Kent State Stark University Center and Township FD training building.
- Incorporating special design elements
 - Cyber attack on process controls
 - Exploded and unexploded IED's
 - Forced manual planning efforts
 - Agreed on one ICP for two events
 - Minor boom deployment





Planning, continued

- USEPA
- OEMA
- OEPA
- Stark Co. EMA
- Stark Co. Sheriff
- Stark Co. LEPC

FBI

- OSRO Clean Harbors
- Marathon Refinery
- Marathon Pipeline
- MPC Corporate





Exercise Scenario

Canton refinery



- Crude tank overflows when indicating 85% full
- Crude follows drainage to Hurford Run, Nimishillen Creek, Sandy Creek
- Tuscarawas River
 - IED ruptures crude oil pipeline
 - 2nd IED found at upstream block valve.





30 E

Conrail Hurford Run Creek Canton Crude





3

Tuscarawas River

Tuscarawas River

Bolivar Dam

Contail

The Timeline

- T-1 day: Network infection shuts down offsite internet
- T+0: Leak at Pipeline and Refinery
- T+0 toT+4 hrs: Local response teams manage event
- T+4 hrs: Turnover to larger IMT
- T+8 hrs: Internet restored, virus discovered in tank level controller
- T+12 hrs: former employee and contractor discovered to be felons with false identity
- T+16 hrs: Press Conference
- T+20 hrs: IAP delivered EndEx
- T+22 hrs: Critique/Hotwash





ICP – Kent State Stark University Center



Press Conference Phase 1 Above Phase 2 Left



IMT Objectives

- Annual Tier 3 IMT Exercise is practice for an all volunteer team
- Involve Team(s) at a higher level of Unified Command
- Push Unified Command (Unity of Response) down into sections
- Work one complete planning cycle
- Involve Federal, State, Local, NGO and private in UC
- Major focus on Security/Terrorism

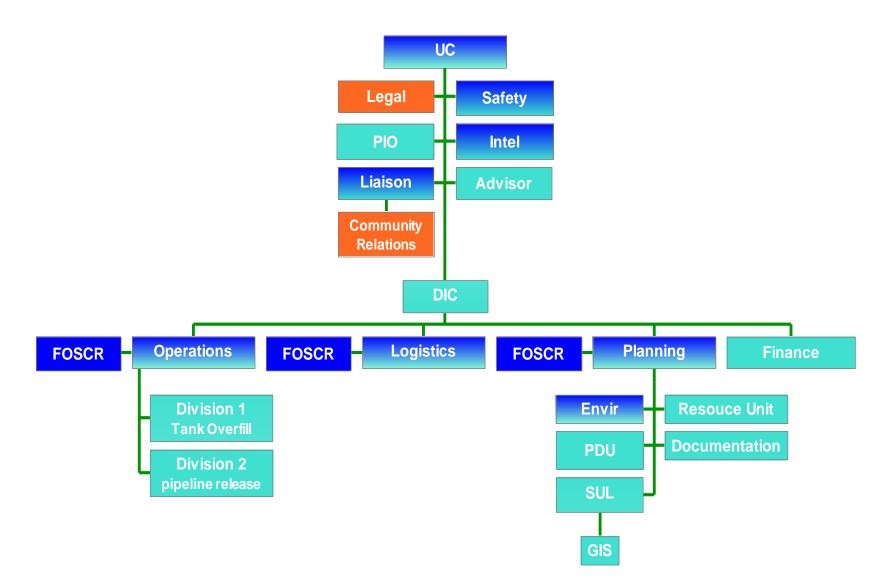


Artificialities

- 24-hour broken daylight
- Size of the IMT
 - Budget concerns allow only one exercise per year
 - Two shifts rotate leads
- Tier 2 teams partially integrated
- Marathon Petroleum filled lead roles in sections.
- No weather effects



Tier 3 Structure w/ Unity of Response









Practice makes perfect – Wax on, Wax off....





Things that Went Well

- Locations/Facilities
- Good agency participation
- Focus on manual planning
- Training pays dividends
- Embedding PDU
- Balance of stress and simulation is close
- Two phase press conference





Opportunities for Improvement

- Keep pushing the training
- Embed SimCell players and provide them more direction
 - Enhance air monitoring presentation
- Recruit local public responders to play at a high level
- Keep local talent engaged through entire drill
- Keep focus on timeliness of Info to Sit Stat board
- Create Turnover Template for tier 2 teams



Improvement continued

Keep pushing NIMS savviness higher

- Premeeting coordination between planning and UC
- Reliance on WebIAP as tool instead of knowing process
- Bolster understanding of non player roles



CERT Drill 2013 Exercise Debrief

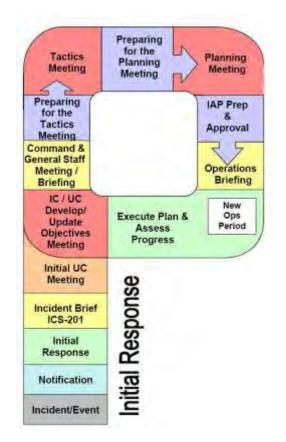
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The Exercise Stats

- 6 planning meetings in 3 locations with 28 planners
- Two-and-one-half days spent in exercise
- 204 participants representing 27 organizations
- 1 Full planning cycle
- 5000 feet of Cat5 cable
- 100 feet of boom deployed





Summary

- Drill planning process B
 - Need more engagement by locals
- Marathon IMT A-
 - Improving through higher level training
 - Continue Training to a higher savviness in national response system
- Unified Command, OPS, Environmental A+
 - Major step up by planning
- Turnover meeting improving



Marathon Petroleum thanks:

- FBI
- USEPA
- OSHA
- OEPA
- Stark EMA
- Stark LEPC
- Canton Twp FD
- Canton FD
- Canton Ambulance
- Colonial Pipeline
- Tristate Bird Rescue

- Wipro
- RENTSYS
- Clean Harbors
- EMSI
- WPNT
- The Response Group
- GRS
- URS
- Arcadis
- CTEH
- Blackbox



Questions?

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