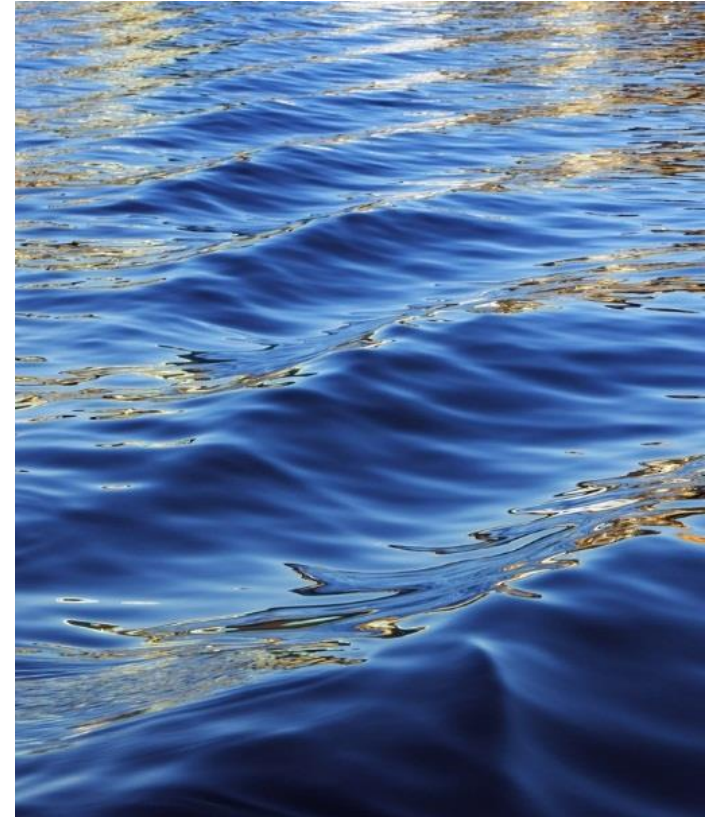


# Enbridge Stockbridge Exercise

Hybrid Spill Response Exercise



# Enbridge Stockbridge Exercise

- Conducted pursuant to DOJ Settlement and Consent Decree to the 2010 Marshall, MI line 6b spill
- Enbridge required to conduct a series of full-scale exercises
- The final consent decree established exercise was scheduled to occur in the Inland Zone in Michigan.
  - The consent decree required 4 full-scale exercises
    - Cass, MN (2017)
    - Des Plains, IL (2018)
    - Wisconsin River, WI (2019)
    - Stockbridge, MI (2020)

# Enbridge Stockbridge Exercise Timeline

- Concept and Objectives Meeting: June 28, 2019
- Initial Planning Meeting: November 11, 2019
- Midterm Planning Meeting: March 2, 2020
- MSEL Meeting: May 13, 2020
- Final Planning Meeting: May 5, 2021
- After Action Meeting: July 16, 2021

# Plan called for full-scale in-person exercise

- Due to covid-19 pandemic, exercise delayed several times
  - Postponed with the anticipation of in person exercise once Covid pandemic restrictions were lifted
  - With ongoing Covid pandemic precautions, plans were developed for virtual exercise components
  - Desire was to still have in person exercise
  - Eventually, a hybrid approach was approved by EPA to facilitate completion of the exercise but still have in person activities supported by virtual response team members utilizing TEAMS platform
  - Multiple TEAMS trainings facilitated by Enbridge leading up to exercise

# Objectives

## **Exercise Objectives**

1. Demonstrate the ability to conduct safe response operations at 2 downstream Control Points using Enbridge and OSRO ER resources in accordance with Enbridge ER Plans, and an ICS Command Post, both in accordance with Health & Safety Plans.
2. Enhance inter-organizational response operations in accordance with Enbridge & Stakeholder's emergency response plans.
3. Work toward development of a Period 1 Incident Action Plan under Unified Command.
4. Conduct an IAP Briefing.
5. Establish a Joint Information Center (JIC) and produce unified and consistent messaging with internal and external organizations.
6. Practice "Liaison" functions and information sharing/passage to participating agencies with a view to achieving a Common Operating Picture (COP).
7. Demonstrate and validate the ability of response personnel to activate and maintain communications during response operations in accordance with all applicable contingency and/or response plans.

# Exercise accomplishments

## National Preparedness for Response Exercise Program (NPREP) Components

NPREP Component
A.1 – Notifications
A.2 – Staff Mobilization
A.3 – Ability to operate within the response management system described in the plan
A.4 – Source Control
A.5 – Assessment
A.6 – Containment
A.7 – Mitigation
A.8 – Protection
A.9 – Disposal
A.10 – Communications
A.11 – Transportation
A.12 – Personnel Support
A.14 - Procurement
A.15 – Documentation

# Exercise accomplishments

## Homeland Security Exercise & Evaluation Program (HSEEP) Core Capabilities

HSEEP Core Capabilities
Environmental Response/Health Safety Planning
Operational Coordination
Public Information & Warning

# Details of Stockbridge Exercise

- “Pre-exercise” small stream countermeasures deployment of field equipment
- Full scale exercise scenario
  - Enbridge noted a pressure drop on Line 78 and initiated line shutdown.
  - After review, up to 8.264 bbls of heavy crude were released on land with the potential of impacting the Red Cedar River.
  - Exercise included establishing 2 downstream containment points and equipment deployment
  - Use of UAV (drone) for real time situational awareness
  - Running Incident Command through a planning cycle
  - Practice hybrid of in person and virtual play



## Participants

### Invited **and Participated:**

- U.S. Environmental Protection Agency (EPA) – Region 5
- U.S. Pipeline & Hazardous Materials Safety Administration (PHMSA)
- U.S. Fish & Wildlife Services (US F&WS)
- Michigan Department of Environment, Great Lakes, and Energy (EGLE)
- Michigan Department of Natural Resources (MDNR)
- Michigan State Police
- Howell Fire Department
- Livingston County Emergency Management
- T&T Marine Salvage Inc.
- Enbridge Pipelines Inc.
- The Response Group Inc. (TRG)

## Pre-exercise equipment demonstration





## Pre-exercise equipment demonstration





## Full-scale exercise equipment deployment





## Full-scale exercise equipment deployment

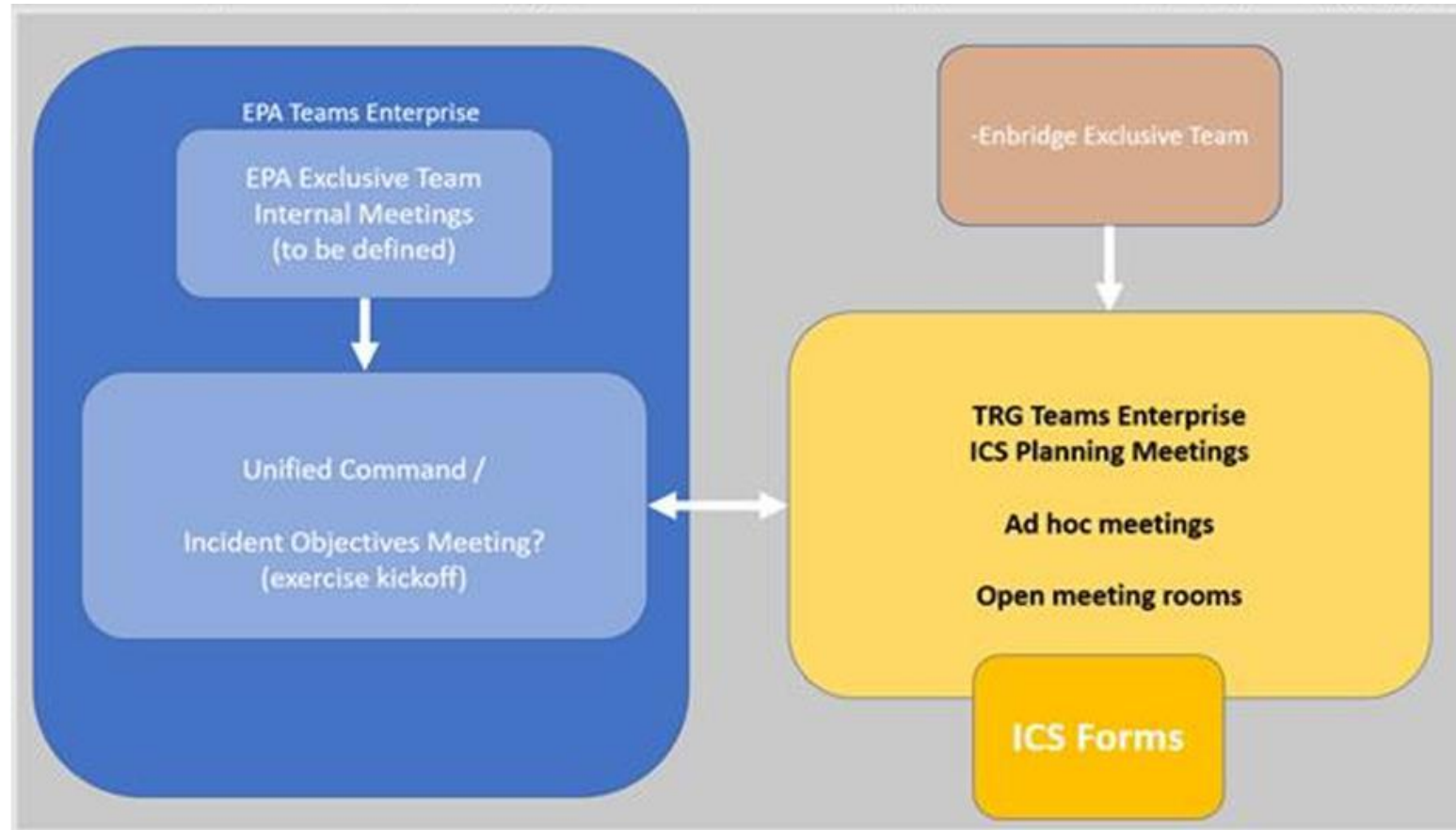




# Exercise day

- Exercise Play
  - Day 1
    - 201 Workshop
    - 201 Brief Out
    - Initial UC meeting
  - Day 2
    - Full scale exercise
    - Activate ICP
    - Activate JIC
    - Field equipment deployment
    - ICS cycle for IAP development
    - Operations Brief
    - Hotwash (all participants)
  - Day 3
    - After Action Meeting (Planning team)

# Virtual Component



## After Action Items

Positive Observations	Applicable to Future exercises
<p>Enbridge prioritized safety in field protocol planning and execution. On site traffic control was very effective, allowed emergency vehicles to travel through easily.</p> <p>Hybrid Exercise worked very well. Continue to push the use of technology in emergency response.</p> <p>PHMSA Preparedness for Response Exercise Program (PREP) objectives were all met.</p> <p>Unmanned Aircraft Systems (UAS) Technology deployed during exercise play was effective in communicating field response activities to the command post and virtual support team.</p> <p>MS Teams Channels utilized well for remote and in person communication and integration.</p>	<p>Additional instruction during the Exercise Kick-Off to remind individuals to leave cameras on and microphones hot so that remote/virtual attendees can be included in discussions. Remind meeting participants to announce their names and speak loudly.</p> <p>Have additional evaluators located at the ICP to help collect feedback.</p> <p>Important to remember to when changing meeting times to communicate to all in person and virtual.</p> <p>Continue to leverage UAS/Drone Technology to communicate/observe field operations.</p> <p>Prep before ICS Meetings review the rules. More review of the meeting agenda prior to the meeting. Would like to see the Situation Status Reports to be more detailed in the meetings.</p>