

# **Panel 1: Considerations for Hazardous Liquid Pipeline Leak Detection Systems**

## *Improving Pipeline Leak Detection System Effectiveness*

### **High Level Agenda for Panel 1**

- PHMSA National Perspective for Hazardous Liquid (HL) Systems
- *Placeholder*: 2<sup>nd</sup> Regulatory Perspective
- Hazardous Liquid Pipelines National Perspective
- Individual HL Operator Perspective #1
- Individual HL Operator Perspective #2

### **What Will Presentation Content Reflect?**

Regulatory Perspectives – Will set the regulatory expectations based on the current requirements. Data will be presented illustrating the recent record of the industry and will identify areas where improvements can be made. The presentations will also identify the recent direction provided by Congress and how this event will assist in addressing a wide range of goals.

National HL Industry Perspective – The National Perspective will provide a broad overview of the industry's position for utilizing leak detection systems (LDS). This presentation will briefly discuss the issues identified in the considerations shown below.

1. To what extent is the HL industry using the computational pipeline monitoring (CPM) method to comply with (195.452 (i) (3)) or using other means to detect leaks via 195.452 (i) (3)?
2. How can HL Pipeline Operators improve the operation/performance of their LDS strategy?
3. How can you factor layers of redundancy into an overall leak detection strategy?
4. What are some of the challenges with LDS for existing vs. new pipelines? Any technology gaps that can be identified?

Individual Company Perspectives – Should specifically address the considerations shown below.

1. Provide any examples of LDS changes that have been made due to the HL IMP rule (not including ongoing SCADA system upgrades which would be done regardless of the rule due to things like equipment obsolescence issues)?
2. How can you factor layers of redundancy into an overall leak detection strategy?
3. How can shut in times be improved by utilizing leak detection technology along with valves, meters and CPM?
4. What are the CAPEX/OPEX costs with installing/maintaining systems on existing vs new pipelines?
5. How are false positives/negatives addressed with LDS?
6. How do human factor issues impact leak detection performance?

7. How do external/environmental and operating conditions (i.e. temperature, pressure differentials and time lag) impact technology or system performance?
8. Are you following, pilot testing new advances in technology or are you supporting any related research?