

# INPO Perspectives NRC Buried and Underground Piping Meeting June 11, 2014

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## **Key Topics**

- INPO's NEI 09-14 role
- Industry Performance
  - Plant evaluations
  - Operating experience
    - ICES reporting





#### NEI 09-14 INPO's Role

Evaluate programs.

Communicate issues to the industry.

Compile and report operating experience.



## **Key Topics**

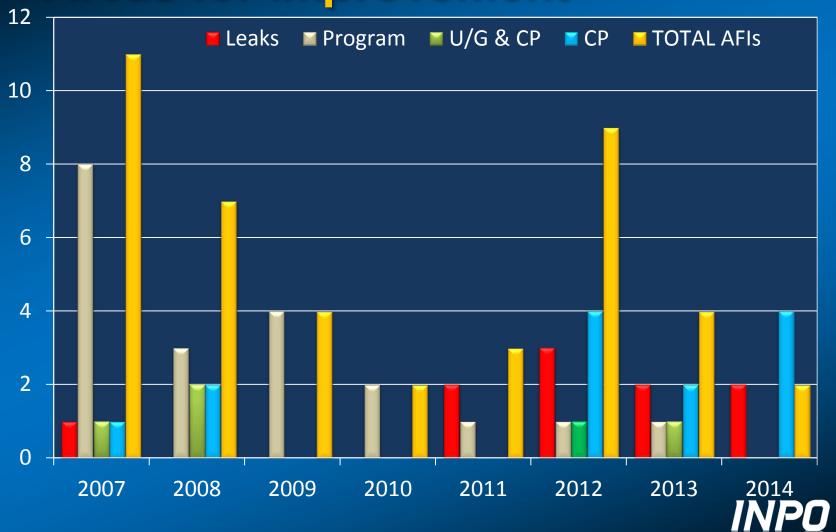
- INPO's NEI 09-14 role
- Industry Performance
  - Plant evaluations
  - -Operating experience
    - ICES reporting
- Questions











#### 2014 Summary

- Two AFIs; Four Performance Deficiencies
  - Two underground piping
  - Four cathodic protection
- Improvement needed
  - Degraded coatings and cathodic protection not properly maintained
  - Cathodic protection equipment work prioritization and completion
  - Cathodic protection site knowledge weaknesses
  - Leaks occurring and the source is not determined



# **Good Underground Piping Program Attributes**

- ICES reporting quality improvement
- Zero leak tolerance especially in piping containing radioactive fluids
- Cathodic protection installed and maintained
- Failure causes identified
- Effective station and corporate oversight
- Effective use of corrective action program



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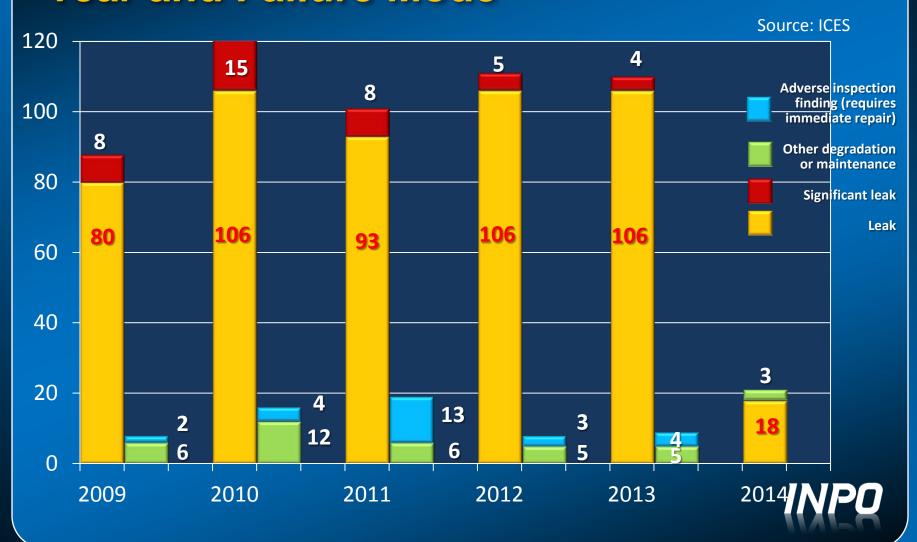
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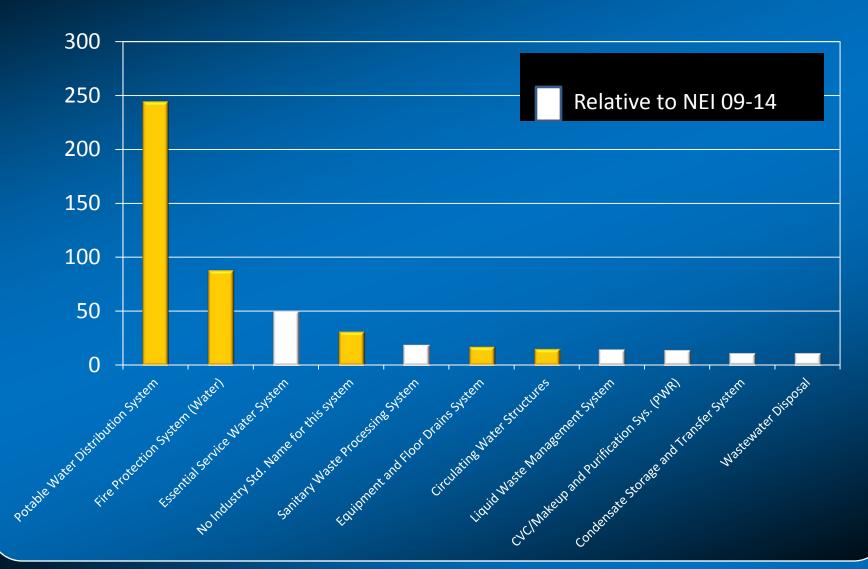


# May 2014 Number of Reported Events by Year and Failure Mode



### **Most Commonly Affected Systems**

Source: ICES



### **Buried Pipe Events Classification**

