May 15, 2013

MEETING PRESENTATIONS

INPO

Institute of Nuclear Power Operations

INPO Perspectives

NRC Buried and Underground Piping Meeting
April 25, 2013

Joe Sears
Manager, Chemistry

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Key Topics

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

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NEI 09-14 INPO Responsibilities

- Evaluate programs
- Communicate issues to the industry
- Compile and report operating experience to NSIAC

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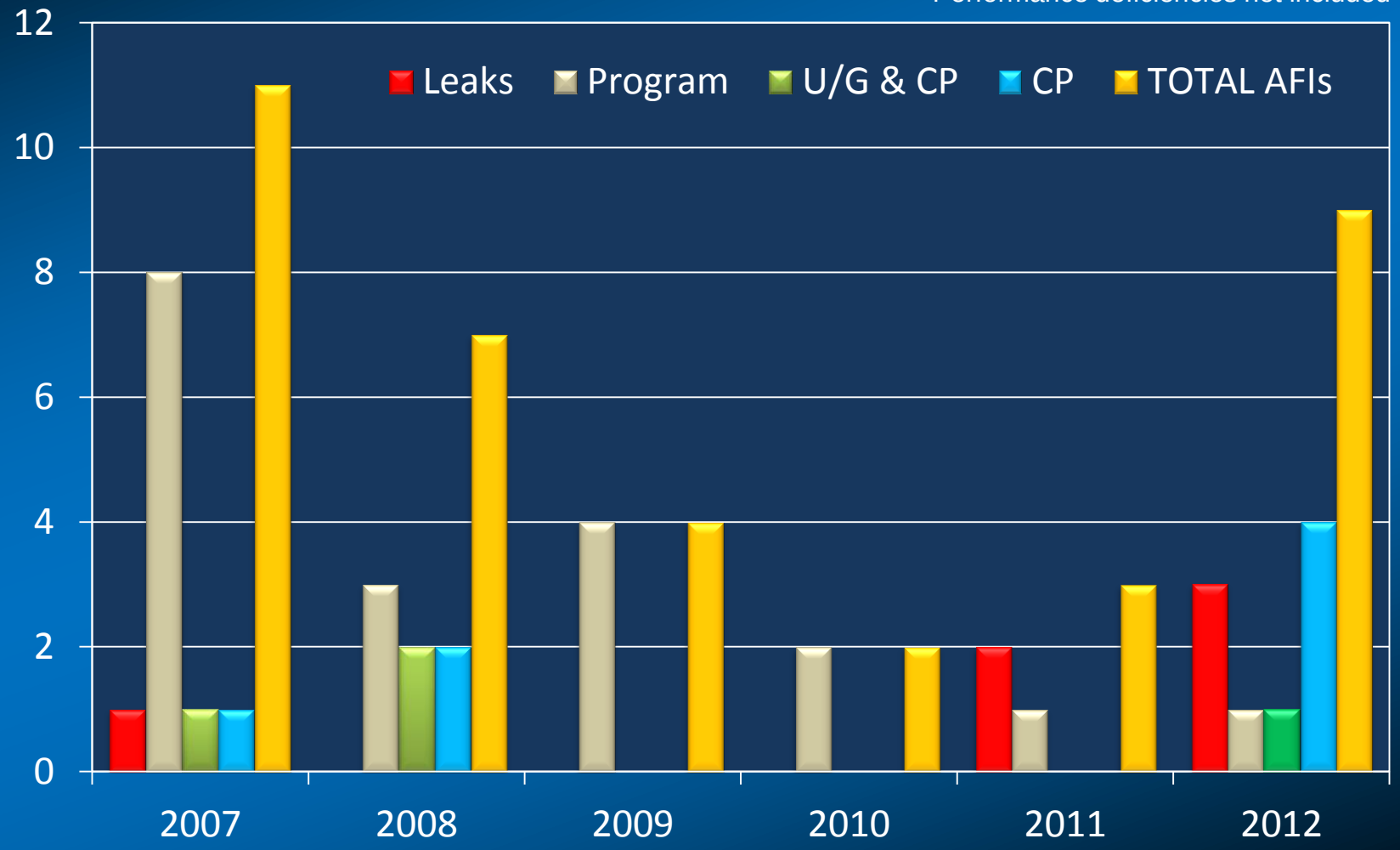
Areas for Improvement

Performance deficiencies not included



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2012 AFI Summary

- Nine AFIs; Four Performance Deficiencies
  - Five – underground piping
  - Four – cathodic protection
- Improvement needed
  - Risk ranking review thoroughness
  - Leak extent of condition addressed
  - Leaks occurring and the source is unknown
  - Cathodic protection health or none installed
  - Input results in ICES (small number unacceptable)

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Good Underground Piping Program Attributes

- Failure causes identified
- Risk ranking challenge board
- Cathodic protection installation
- Zero leak tolerance – especially in piping containing radioactive fluids
- Effective station and corporate oversight
- Healthy collaboration between UP, CP and GW
- Effective use of corrective action program

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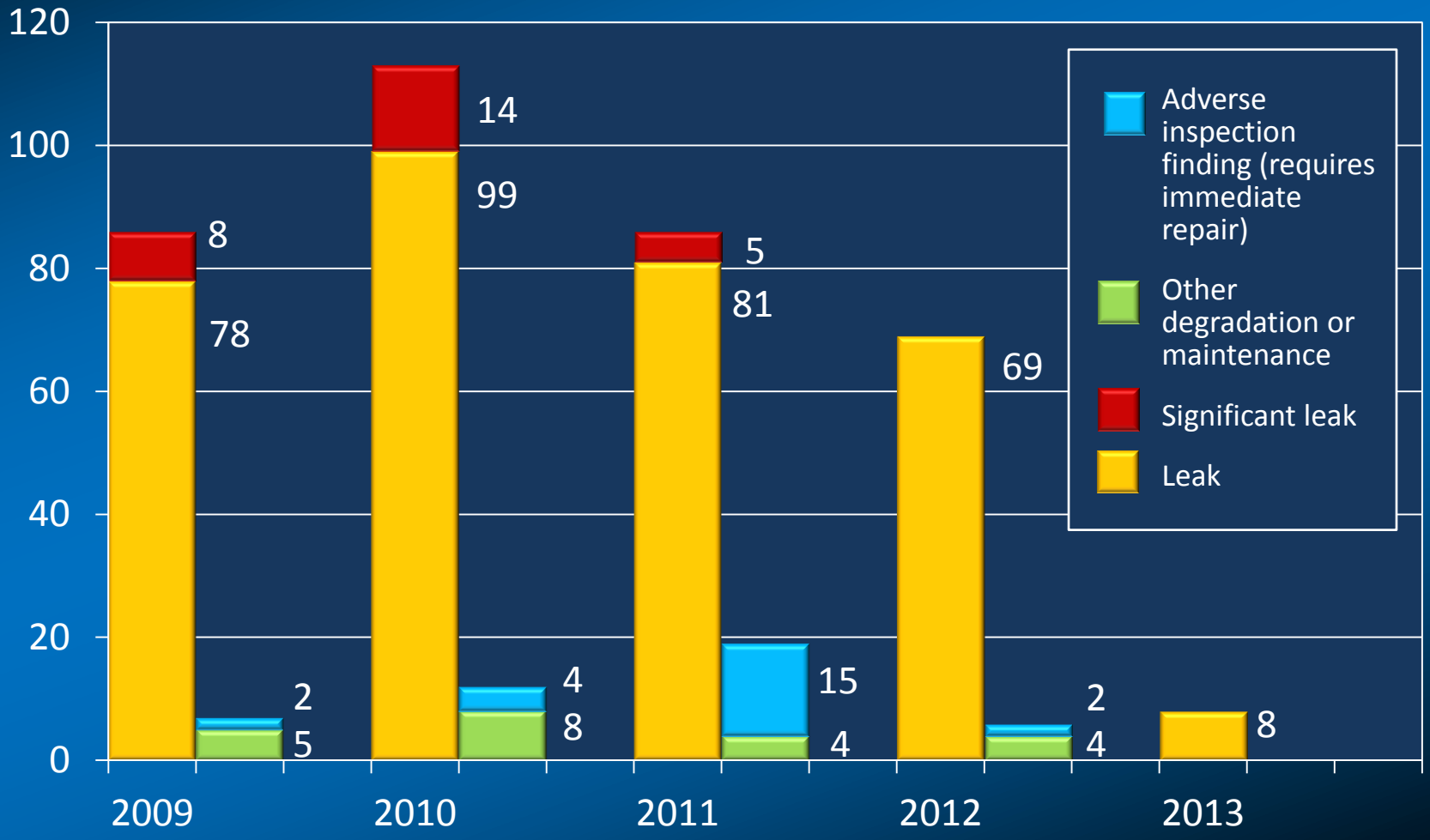
April 2013 Number of Reported Events by Year and Failure Mode

Source: ICES



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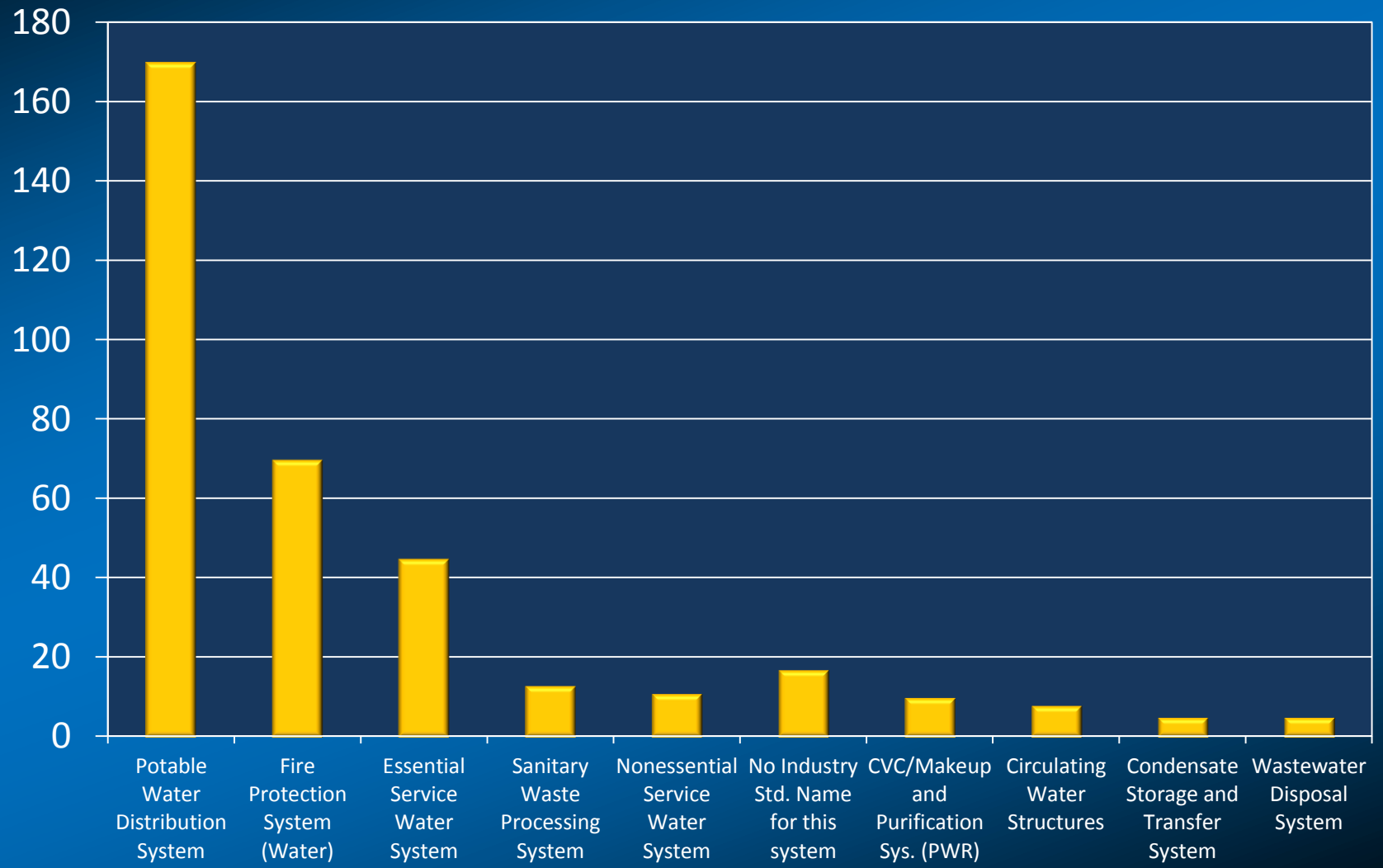
Most Commonly Affected Systems



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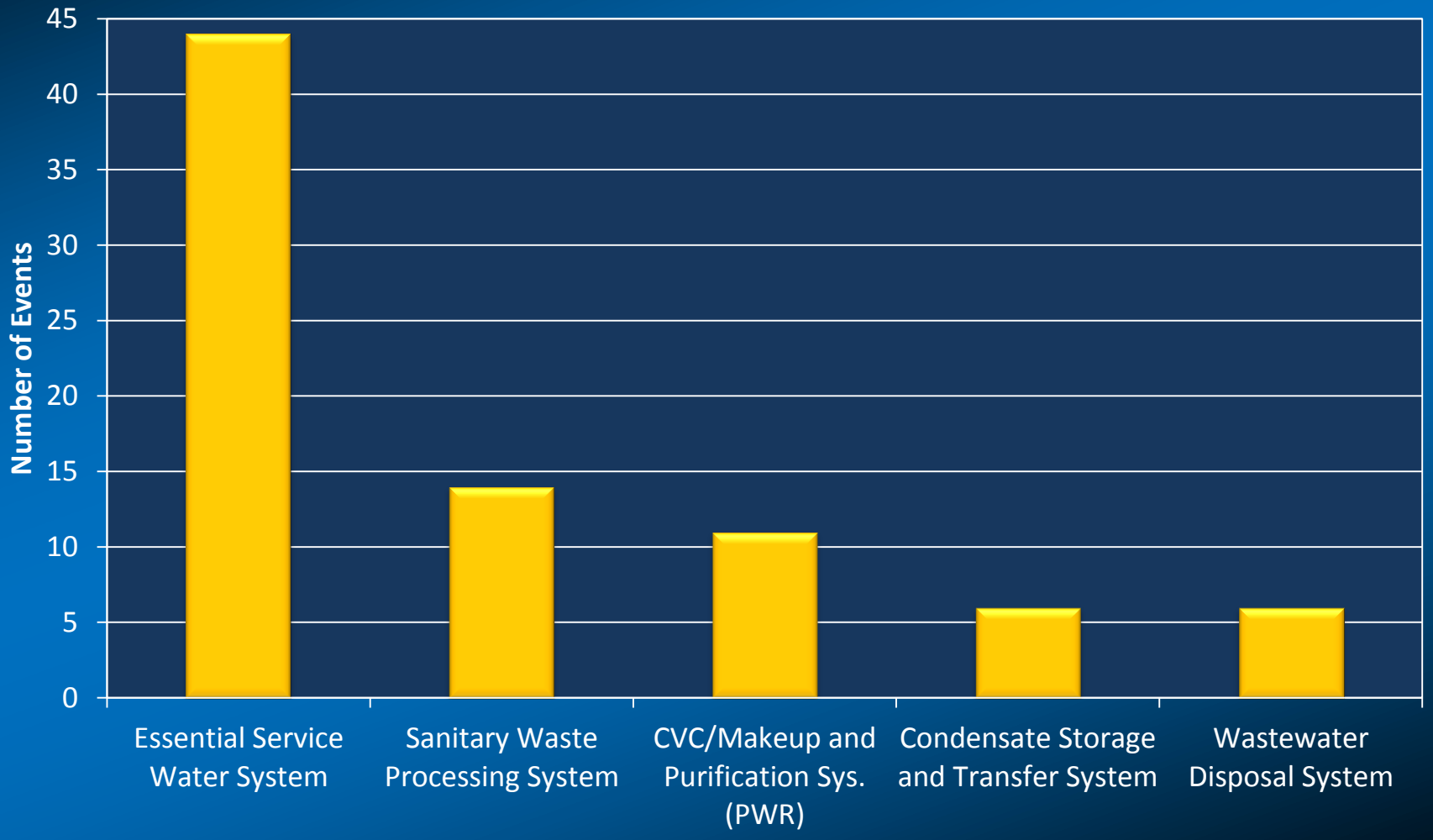
Most Commonly Affected Systems Relative to NEI 09-14



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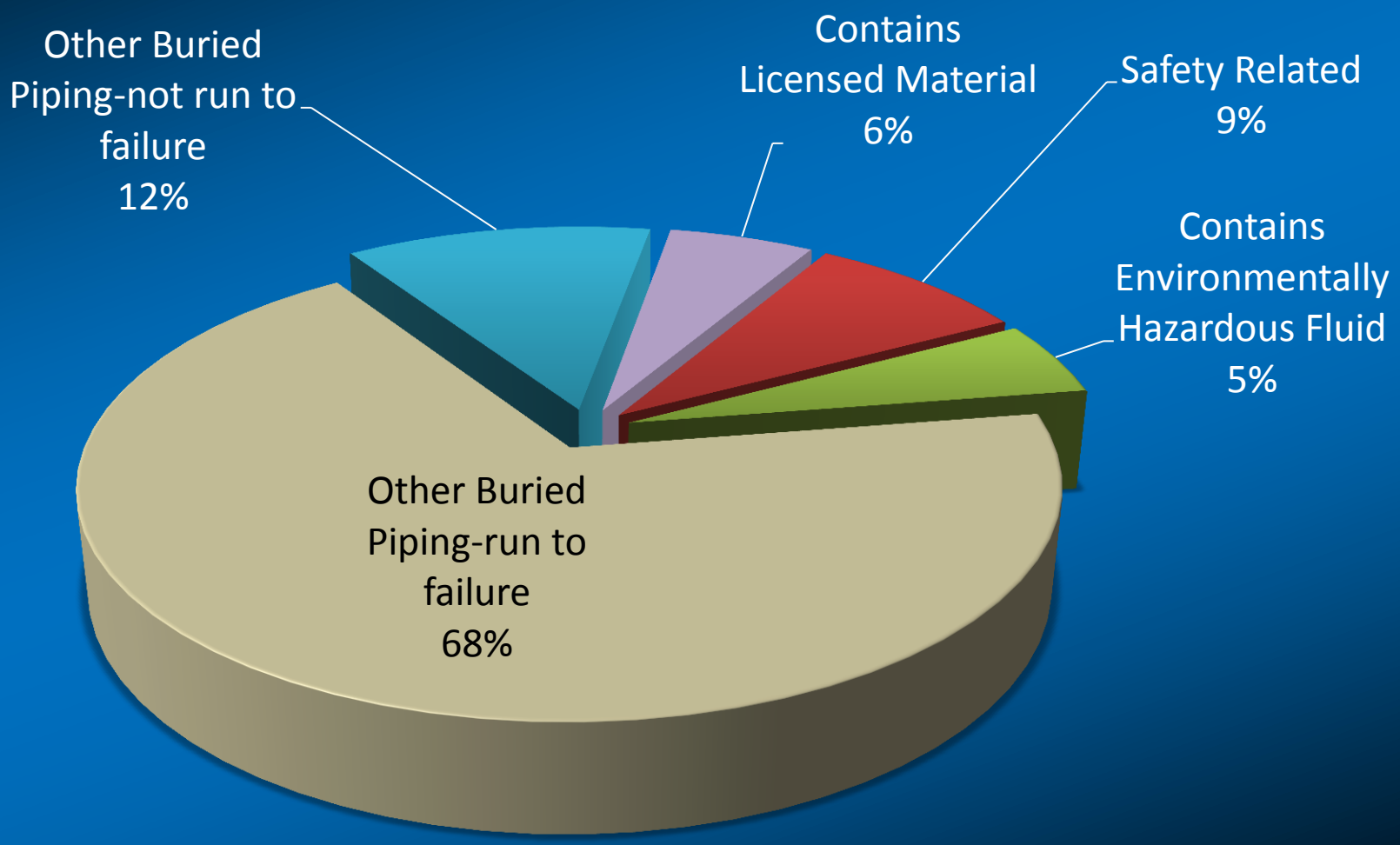
Buried Pipe Events Classification



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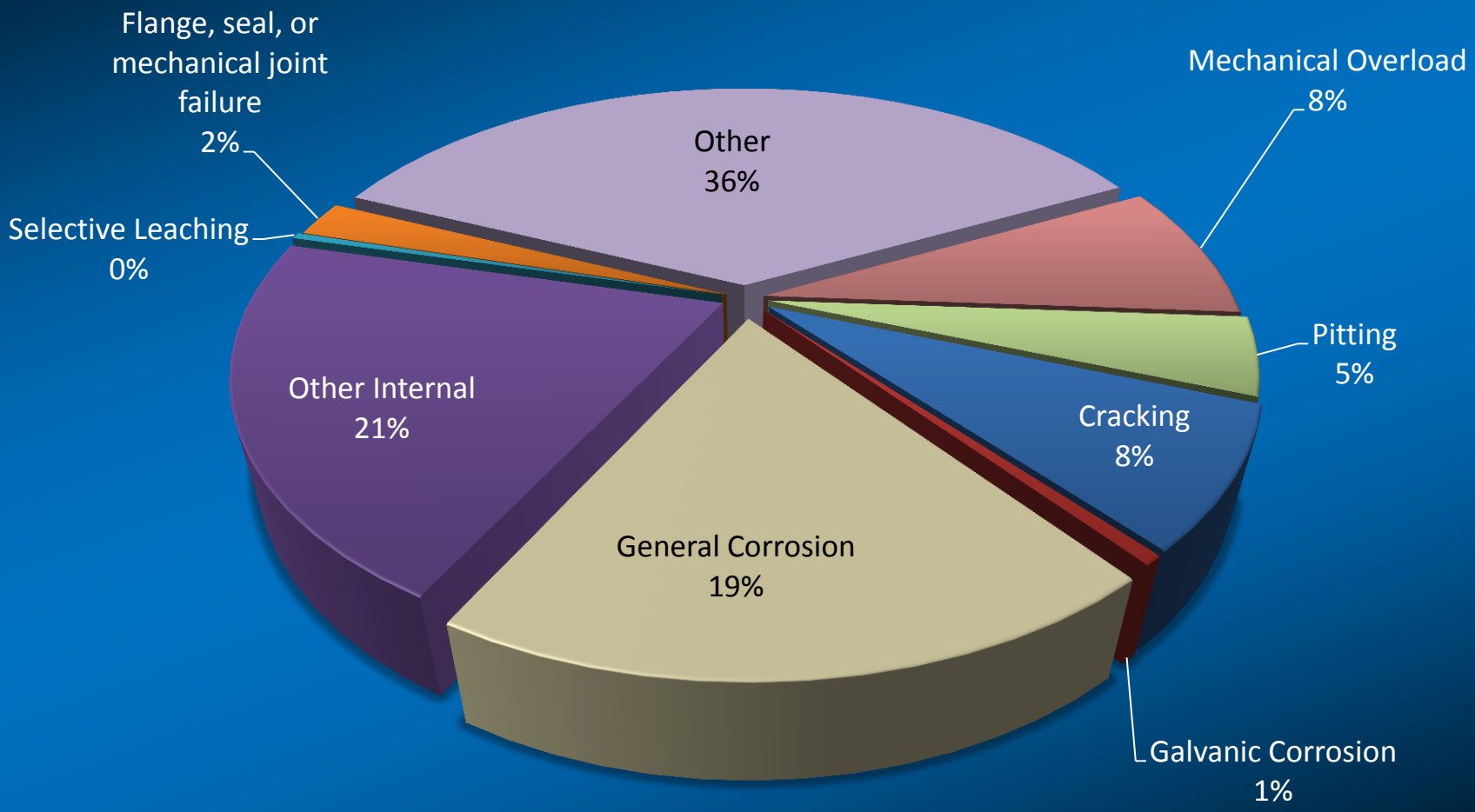
UPTI Failure Codes



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Questions

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