

INPO Review of Underground Piping

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Objective

- Review of INPO activities during evaluations
- Industry Operating Experience

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Review of INPO activities

- Plant evaluations approximately every two years
- Performance based
- Includes a look at passive components such as plant piping and heat exchangers
- Increased emphasis on condition of underground piping in 2007
- First priority is safety-related piping

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Review of INPO activities

- Re-established underground piping as a department focus area in 2009
- Emphasis is on actions plants are taking in response to EPRI industry recommendations
- Continue with underground piping as a focus area on plant evaluations through 2010

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Initial observations

- With a few exceptions, most plants had not focused on underground piping
 - Cathodic protection repairs needed
 - Limited site knowledge of cathodic protection and piping health

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Current observations

- With few exceptions, stations have a formal program
 - Improving trend for cathodic protection maintenance
 - Health reports generated at some plants. Program engineer/system engineer assigned
 - Continued emphasis on evaluations

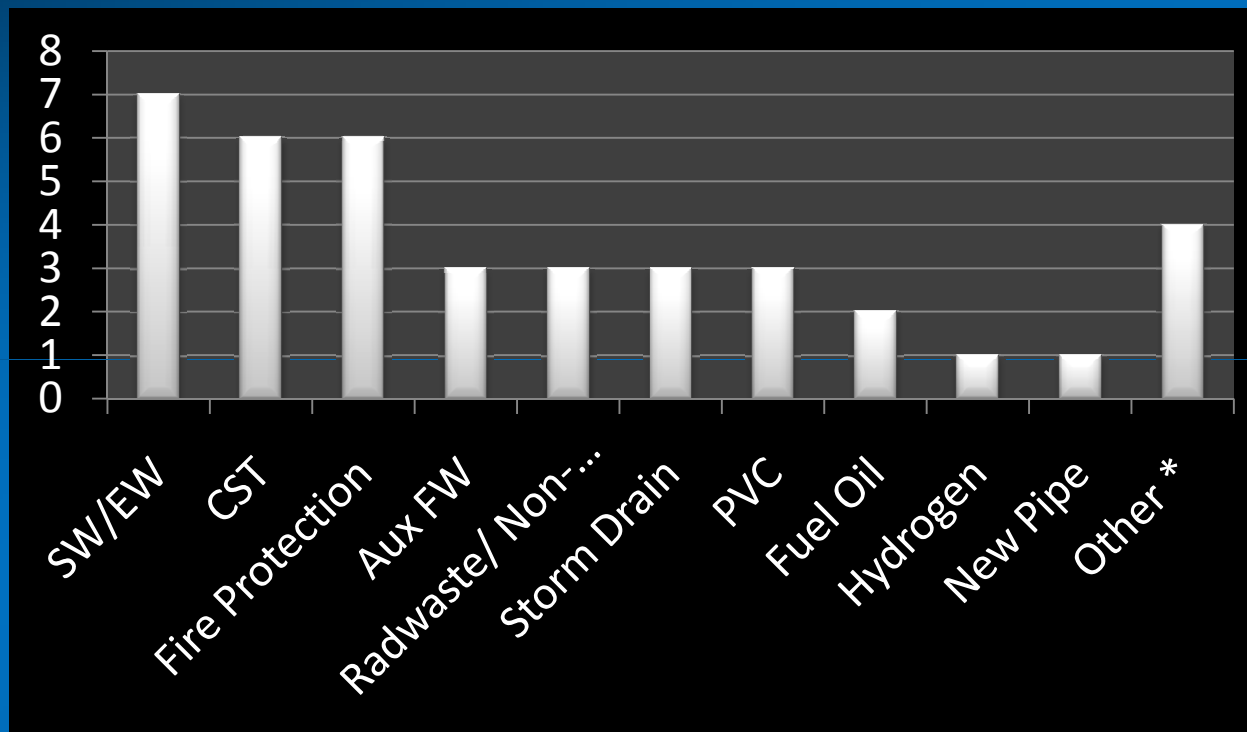
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Operating experience

- Reporting improving with increased emphasis at stations
 - Pin hole/small leaks most common
 - Service water/emergency service water
 - CST
 - Fire protection

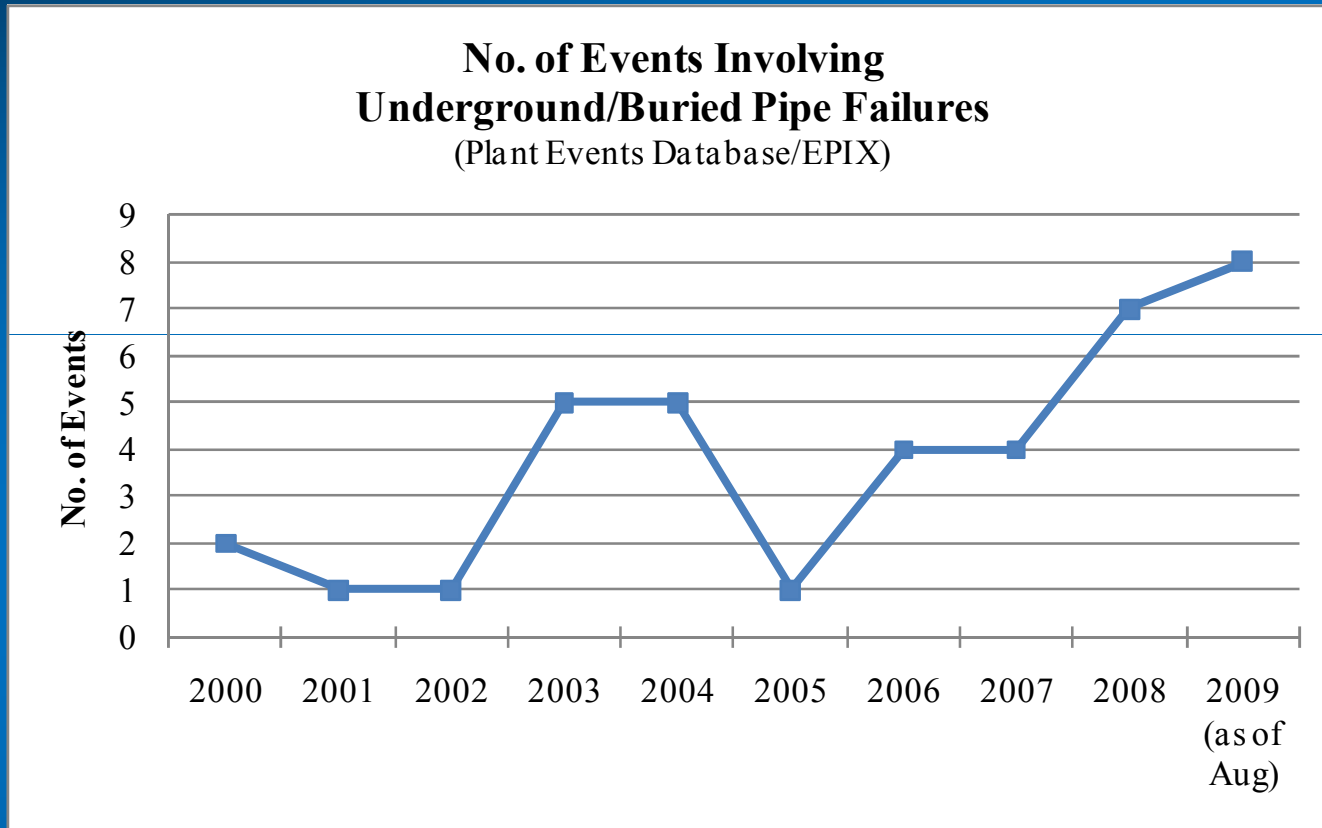
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Operating Experience 2000 to Aug. 2009



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Operating Experience 2000 to Aug. 2009



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Questions?

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