



# SHRIMP - A DIMP Plan Creation Tool

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## What Is APGA?

- The National Trade Association for Publicly-Owned Gas Utilities
- Over 700 member utilities in 36 states
- Created in 1961
- New mission in 2004
- Moved to Washington, DC
- Expanded to 9 staff

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## What is the APGA Security and Integrity Foundation

- 501 c3 Non-profit foundation created by APGA in 2005 to assist small operators
- Receives funding from the Pipeline And Hazardous Materials Safety Administration (PHMSA) thru cooperative agreement
- Provides OQ evaluations and O&M procedures, in addition to DIMP

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## SHRIMP

- On-line software product similar to tax preparation software (TurboTax)
- SHRIMP asks the user a series of questions about the system and its inspection and maintenance history
- Questions change based on answers
- Output will be a nearly complete DIM Plan

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## SHRIMP Development

- Advisory Group made up of state regulators, federal regulators and industry
- Technical Toolboxes is software developer
- Heath and Associates, Technical Consultant
- Viadata, Technical Consultant

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Enter/confirm system  
info

Select  
Settings

Complete threat interviews

Validate Risk Rankings

Select Additional Actions\*

Select Performance  
Measures

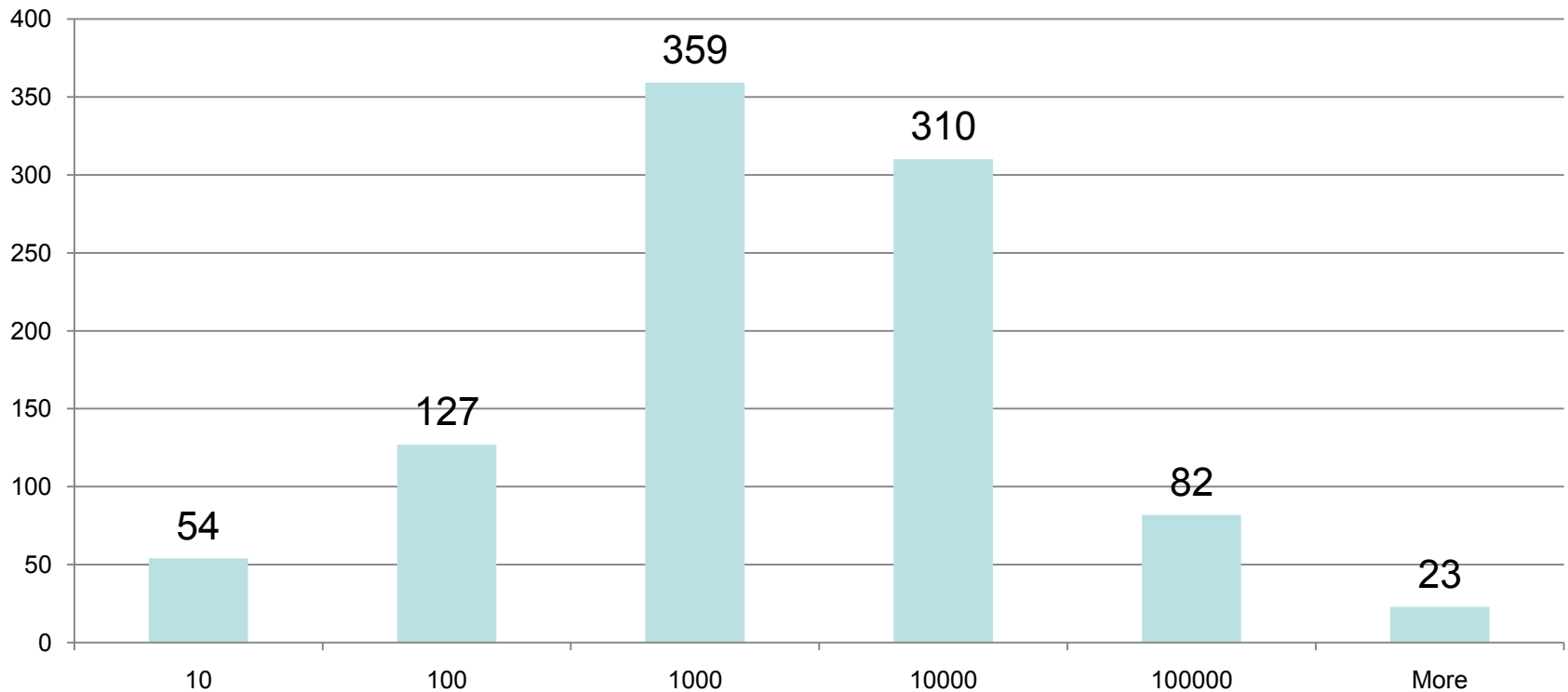
Create Implementation Plan

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## Size Range of SHRIMP Users



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## DIMP Pilot Audit

- Two SHRIMP Users
  - Clarke-Mobile, AL, December 2010
  - Mesa, AZ, February, 2011
- Conference call with DIMP Pilot Team on 1/7/11
- 2nd Call after Mesa audit
- All comments are being addressed

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## Revisions after 1/7 Call

- Added Effective Date, Revision Date and “Replaces Plan Dated ...”
- Added an Attachment describing procedure followed by SHRIMP
- Included instructions on what to put in Data Source field
- Added an Attachment showing each question answered and data source
- Labeled questions by:
  - Design, operational and environmental characteristics
  - Actual and potential threats

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## Revisions after 1/7 Call

- Made “I don’t know” an answer for design and construction questions, with optional text to describe how such info will be gained over normal business
- Included the numeric risk scores in the risk ranking section of the written plan
- Included the original risk rank if the user changed a risk rank for a threat section
- Added an Implementation Plan section that summarizes all required actions from the plan and asks users to enter implementation details

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## Revisions Not Made after 1/7 Call

- Did not make “I don’t know” an option for inspection and maintenance data required by Part 192
- Kept the Mann-Kendall test – it will improve with more years’ data
- Cannot provide a threshold score above which A/A Actions should be taken
- Does not ask about corroding tracer wire in corrosion threat
- Cannot help with ranking threats listed as “Other”
- No cumulative risk score for multiple threats

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## Revisions made after Mesa Audit

- Allow up to 10 years data entry
- Establishing a baseline – Guidance is provided but baseline may be 2012 experience
- Added triggers for when a program review is necessary
- Considering new Excavation subthreat questions for cross-bores

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## Revisions Planned From Cooperative Agreement

- Create a mechanism to walk user through a complete program re-evaluation and log changes from previous plan
- Use the data from ~1,000 users (1/3 of the industry) to improve the risk model
  - Example: Is the user's corrosion leaks/mile of coated, CP steel higher, lower or statistically no different from other SHRIMP users?

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# Questions?



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