



SHRIMP and other Programs

John Erickson

APGA Security and Integrity Foundation (SIF)

5-15-13

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What Is APGA?

- The National Trade Association for Publicly-Owned Gas Utilities
- About 700 member utilities in 36 states
- Created in 1961

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Security & Integrity Foundation (SIF)

- Independent of APGA
- Assist small operators to operate safe gas distribution systems
- “Small operators” include—
 - Small utilities
 - Master meter, and
 - Propane piping systems
- Funded through a cooperative agreement with PHMSA and through product sales

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SHRIMP

- 1163 active SHRIMP subscribers with 1774 systems total users, many in Oklahoma
- Major revision in 2012 – Manage plan revision and track changes
- Allows input of leak trending data through 2012
- Some issues with how “Replaces Plan Dated:” is addressed

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Replaces Plan Dated Issue

- Prior versions of SHRIMP did not store effective dates of plans, therefore when a new plan is generated the programmer inserted this text:

Generated Date: 2013-01-02 Version: 2.1.1

Effective Date: 2013-01-02

Replaces Version: **Legacy** Effective: (**No Prior Plan**)

- We have fixed it to let the user insert prior plan date

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Revisions

Table 1. Plan Version History

Plan Version	Program Version	Date	By User	Notes
2.1.1	2.1.6	2013-01-02	lanemiller	Leak data for 2012 was added. Version incorporates modifications to programming by the SIF during 2012.
Legacy	1.1.31	2012-12-13	lanemiller	Plan Generated Prior To Version Tracking. Cannot determine Year, Mode, Effective Date.

Table 2. SHRIMP Version History

Program Version	Date	Notes
2.1.6	2013-01-02	Data for 2012 may now be entered.
2.1.5	2012-12-13	Corrects crashes due to certain revision notes; Shows plan type (preview or final) in list of Written Plans.
2.1.4	2012-12-02	Corrects prior plan effective date; interview end during review or correct modes; required settings.
2.1.3	2012-11-28	Fix problem with editable areas when using "Correct" mode.
2.1.2	2012-11-18	SHRIMP update adding New Leaks mode and new Required Settings.
2.1.1	2012-04-24	Initial release of SHRIMP with full DIMP version tracking and revisions.
1.1.31	2012-04-24	All versions of SHRIMP prior to the incorporation of version tracking.



Concept of Sectioning Not Well Understood

- Similar materials
- Geographic areas
- Similar pieces of equipment
- Tasks
- Specific crews or departments
- Anything that makes sense because of similar risk characteristics and effectiveness of A/A Actions

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Update

- We are still making adjustments to the threat questions and to the risk ranking model
- We are making every attempt to ensure no data is lost in the process
- Some changes may change relative risk ranks for one or more threat-sections
- We alert users to changes via the alert feature in SHRIMP and on the bulletin board at:
<http://www.apgasif.org>

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Threat Assessment and Risk Model Changes

- Will consider statistical differences in leaks/mile and damages/ticket
- Add problem materials: PVC, ABC Driscopipe 8000
- Add meter loops to Equipment Threat
- Natural Forces – Mandatory sub-sectioning if any problem areas are identified
- Totally revamp excavation damage threat
- All threat-sections will be listed in the risk-ranking section of the plan regardless of level of risk

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Tracking Performance Measures

- Will include a database to store data on each of the pre-loaded threat-specific SHRIMP performance measures
- Will use the Mann-Kendall test to analyze for trends

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Submit Annual Reports to PHMSA

- SHRIMP already asks for data required for distribution annual reports
- PHMSA requires electronic submission
- Rather than re-enter all data, user could use SHRIMP to submit data
- Not currently scheduled

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Top Ten SHRIMP Mistakes

1. Didn't read the Users' Guide
2. Didn't complete all information (Implementation Plan, most often)
3. Didn't download and save the Plan
4. Didn't read the Plan
5. Accepted without question all SHRIMP rankings
6. Didn't consider whether to create subsections
7. Didn't enter all information in the Implementation Plan
8. Didn't complete the Data Source fields
9. Didn't download and read the inspection form prior to an audit
10. Didn't download and read the SHRIMP audit cross reference doc.

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Other SIF Programs

- Drug and Alcohol Plan Development Tool
- Has been available since 2011
- Only ~ 60 operators are using it
- Can be found at www.apgasif.org

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In progress

- Revision of PHMSA small operator guides
 - Advisory group has provided comments on natural gas and OQ guides.
 - LP guide awaiting decision how to address NFPA Standard versions
- Operation and Maintenance Plan development tool
 - Are assembling advisory group-Volunteers?

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APGA Issues

John Erickson

American Public Gas Association

May 15, 2013



Natural Gas[™]
Comfortable. Responsible.



Current Issues

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- Leak Cause Definitions
- APGA GOAL Program

Leak Cause Definitions

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- APGA uses PHMSA's Annual and Incident report data extensively
- Used in a benchmarking program
- Used to calculate the incident probability factor in SHRIMP's risk model

Probability of Failures Causing Incidents

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Reported Cause of Incidents and Failures 2005-2007	# OF INCIDENTS	# OF FAILURES	INCIDENTS/1000 FAILURES	Normalized to corrosion
CORROSION	6	293933	0.02	1
EXCAVATION DAMAGE	73	338666	0.22	11
INCORRECT OPERATIONS	8	30145	0.27	13
MATERIAL FAILURE	8	147384	0.05	3
EQUIPMENT FAILURE	6	140442	0.04	2
NATURAL FORCE DAMAGE	22	77229	0.28	14
OTHER OUTSIDE FORCE DAMAGE*	39	37426	1.04	51
ALL OTHER CAUSES	NA	NA	NA	

- # of failures is # of leaks repaired from annual reports
- What's going on with other outside force damage?

Differing Definitions

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- Example: Vehicle strikes a meter – driver killed
- Incident report instructions say to report this as an Other Outside Force Incident
- Annual report instructions say to report the leak repair cause as Excavation
- Skews Incidents/1000 failures up for Other Outside Force and down for Excavation

APGA's Comments

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- Offered revised definitions for the annual report form based on current incident definitions, with a few exceptions
- Urged PHMSA to reconcile incident definitions whenever possible
- Long term need – A stakeholder data team to advise on data needs and review data trends

APGA GOAL

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- Gas Overall Awareness Level (GOAL)
- Public awareness effectiveness assessment for customers and non-customers living near distribution lines
- 7th year of surveys for ~ 200 utilities
- Participating utilities receive report for their area plus nationwide aggregated data for all GOAL users
- Sample size selected to ensure validity



Questions?



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