



## AGA's Commitment to Enhancing Safety: February 2014 Update

AGA and its members are dedicated to the continued enhancement of pipeline safety. As such, we are committed to proactively collaborating with public officials, emergency responders, excavators, consumers, safety advocates and members of the public to continue to improve the industry's longstanding record of providing natural gas service safely and effectively to 177 million Americans. AGA and its members support the development of reasonable regulations to implement new federal legislation as well as the National Transportation Safety Board safety recommendations.

Below are voluntary actions that are being addressed by AGA or individual operators to help ensure the safe and reliable operation of the nation's 2.4 million miles of pipeline which span all 50 states representing diverse regions and operating conditions. In addressing these actions, AGA and its individual operators recognize the significant role that their state regulators or governing body will play in supporting and funding these actions.

It is the consensus of AGA members that the actions listed below enhance safety and gas utility operations when implemented as an integral part of each operator's system specific safety actions. However, both the need to implement and the timing of any implementation of these actions will vary with each operator. Each operator serves a unique and defined geographic area and their system infrastructures vary widely based on a multitude of factors, including facility condition, past engineering practices and materials. Each operator will need to evaluate the actions in light of system variables, the operator's independent integrity assessment, risk analysis and mitigation strategy and what has been deemed reasonable and prudent by their state regulators. It is recognized that not all of these recommendations will be applicable to all operators due to the unique set of circumstances that are attendant to their specific systems.

### **Building Pipelines for Safety**

#### **Construction**

- Expand requirements of the Operator Qualification (OQ) rule to include new construction of distribution and transmission pipelines.
- Review established oversight procedures associated with pipeline construction to ensure adequacy and confirm that operator construction practices and procedures are followed.

#### **Emergency Shutoff Valves**

- Support the use of a risk based approach to the installation of automatic and/or remote control sectionalizing block valves where economically, technically and operationally feasible on transmission lines that are being newly constructed or entirely replaced. Develop guidelines for consideration of the use of automatic and/or remote control sectionalizing block valves on transmission lines that are already in service. Work collaboratively with appropriate regulatory agencies and policy makers to develop these criteria.
- Expand the use of excess flow valves to new and fully replaced branch services, small multi-family facilities, and small commercial facilities where economically, technically and operationally feasible.

### **Operating Pipelines Safely**

#### **Integrity Management**

- Continue to advance integrity management programs and principles to mitigate system specific risks. This includes operational activities as well as the repair, replacement or rehabilitation of pipelines and associated facilities where it will most improve safety and reliability.
- Collaborate with stakeholders to develop and promote effective cost-recovery mechanisms to support pipeline assessment, repair, rehabilitation, and replacement programs.
- Develop industry guidelines for data management to advance data quality and knowledge related to pipeline integrity.
- Support development of processes and guidelines that enable the tracking and traceability of new pipeline components.

#### **Excavation Damage Prevention**

- Support strong enforcement of the 811 – Call Before You Dig program through state damage prevention laws.
- Improve the level of engagement between the operator and excavators working in the immediate vicinity of the operator's pipelines.

### **Enhancing Pipeline Safety**

#### **Safety Knowledge Sharing**

- Review programs currently utilized for the sharing of safety information. Identify and implement models that will enhance safety knowledge exchange among operators, contractors, government and the public.

#### **Stakeholder Engagement and Emergency Response**

- Evaluate methods to more effectively communicate with public officials, excavators, consumers, safety advocates and members of the public about the presence of pipelines. Implement tested and proven communication methods to enhance those communications.
- Partner with emergency responders to share appropriate information and improve emergency response coordination.

#### **Pipeline Planning Engagement**

- Work with a coalition of Pipelines and Informed Planning Alliance (PIPA) Guidance stakeholders to increase awareness of risk based land use options and adopt existing PIPA recommended best practices.

#### **Advancing Technology Development**

- Increase investment, continue participation, and support research, development and deployment of technologies to improve safety. Evaluate and appropriately implement new technological advances.

Gas Utility Industry Actions To Be Implemented	Target Dates *
1. Confirm the established MAOP of transmission pipelines  <b>Note:</b> Confirmation of established MAOP utilizes the guidance document developed by AGA, "Industry Guidance on Records Review for Re-affirming Transmission Pipeline MAOPs," October 2011.	On an aggregate basis of AGA member companies, complete > 50% of class 3 & 4 locations + class 1&2 HCAs: 7/3/12 Remaining class 3&4 + 1&2 HCAs, based on PHMSA guidance: 7/3/13 – <b>Per DOT, MAOP confirmed for all but 5,401 miles</b> Remaining class 1&2 by 7/3/15
2. Review and revise as necessary established construction procedures to provide for appropriate (risk-based) oversight of contractor installed pipeline facilities. <b>Construction oversight document released 4/13.</b>	Trans: 12/31/12 Dist: 12/31/13
3. Implement applicable portions of AGA's technical guidance documents: 1) Oversight of new construction tasks to ensure quality; 2) Ways to improve engagement between operators & excavators	Within 1 yr of AGA guidance
4a. Under DIMP, evaluate risk associated with trenchless pipeline techniques and implement initiatives to mitigate risks	12/31/12
4b. Under DIMP, identify distribution assets where increased leak surveys may be appropriate	12/31/12
5. Integrate applicable provisions of AGA's emergency response white paper and checklist into emergency response procedures <b>Emergency response white paper &amp; checklist complete</b>	12/31/12
6. Extend Operator Qualification program to include tasks related to new main & service line construction	6/30/13
7. Expand EFV installation beyond single family residential homes to small commercial and multi-family residential services	6/30/13
8. Implement appropriate meter set protection practices identified through AGA Gas Utility Best Practices Program. Roundtable is being held October 31, 2013.	5/1/14
9. Incorporate an Incident Command System (ICS) type of structure into emergency response protocols	6/30/13
10. Extend transmission integrity management principles to transmission pipelines outside of HCAs using a risk-based approach <i>Note: Document on integrity management principles is on hold due to PHMSA's Integrity Verification Process initiative</i>	70% of population within PIR by 2020; 100% of population by 2030
11. Begin risk-based evaluation on the use of ASVs, RCVs or equivalent technology on transmission block valves in HCAs – Controller General Study completed January 2013	July 2013

\* Target dates are based on an operator's evaluation of these actions in light of system variables, the operator's independent integrity assessment, risk analysis, and mitigation strategy. Target dates also assume state regulatory approval that action is prudent and reasonable and therefore recoverable in rates. **Per AGA surveys, all target goals have been met by most AGA members**

Gas Utility Industry Actions That Exceed 49 CFR Part 192
Incorporate systems and/or processes to reduce human error to enhance pipeline safety
Advocate programs to accelerate the risk-based repair, rehabilitation and replacement of pipelines
Support development of processes and guidelines that enable tracking and traceability of pipeline components
Encourage participation in One-Call by all underground operators and excavators
Influence and/or support state legislation to strengthen damage prevention programs
Use industry training facilities and evaluate opportunities to expand outreach/education programs to internal and external stakeholders
Support and enhance damage prevention programs through outreach, education, intervention and enforcement
Use a risk-based approach to improve excavation monitoring
Develop, support, enhance and promote CGA initiatives targeted at damage prevention, including data submission and 811
Support public awareness programs targeted at damage prevention
Continue AGA Safety Committee initiatives, such as sharing lessons learned through the Safety Information Resource Center, safety alerts through the AGA Safety Alert System, safety communications with customers and supporting AGA's Safety Culture Statement
Explore ways to educate, engage and provide appropriate information to stakeholders to increase pipeline public awareness
Conduct organizational response drills to improve emergency preparedness
Participate in state, regional and national multi-agency emergency response training exercises
Reach out to emergency responder community in order to enhance emergency response capabilities
Verify participation in a mutual assistance program, if appropriate; integrate into emergency response plans
Collaborate with stakeholders near existing transmission lines to increase awareness/adoption of appropriate PIPA recommended best practices
Promote benefits of R&D funding. Support R&D investment, pilot testing and technology implementation
Support technology development and deployment in critical applications
Collaborate on R&D

## **AGA's Commitment to Enhancing Safety: AGA Actions**

### **AGA ACTIONS COMPLETED**

- ✓ Implement discussion groups to address safety issues including discussion groups for employee technical training and knowledge transfer, material supply chain issues, DIMP implementation, public awareness, work management, GPS/GIS and work management systems, contractor/quality management, odorization, public awareness, and damage prevention.
- ✓ Participate in DOT events on Automatic Shut-off Valve and Remote Control Valves, Pipeline Data, Distribution Integrity Management, Incident Reporting, Public Awareness, Leak Detection System Effectiveness and Understanding the Application of Automatic/Remote Control Shutoff Valves, Integrity Verification Process
- ✓ Develop, with INGAA and API, a public document to explain ratemaking mechanisms used for pipeline infrastructure
- ✓ Create a Safety Information Resources Center for the sharing of safety information
- ✓ Hold regional operations executives' roundtables to discuss safety initiatives: Annually
- ✓ Sponsor workshop with INGAA and National Association of State Fire Marshals (NASFM) on emergency response
- ✓ Develop a technical note on industry considerations for emergency response plans
- ✓ Develop Emergency Response Resource center with a streamlined mutual assistance program
- ✓ Develop a task group comprised of AGA staff and members to work closely with Pipelines and Informed Planning Alliance (PIPA) to ensure AGA member concerns are addressed in joint PIPA initiatives
- ✓ Work with INGAA, research consortiums and other pipeline trade associations to provide the NTSB with a compilation of the progress that has been made in advancing in-line inspection technology
- ✓ Host a roundtable focused on operator experience and lessons learned: Annually at the AGA Operations Conference
- ✓ Work with INGAA, API, AOPL, Canadian Gas Association and Canadian Energy Pipeline Association on a comprehensive safety management study that explores initiatives currently utilized by other sectors and the pipeline industry.
- ✓ With PHMSA, create a Data Quality & Analysis Team to analyze data PHMSA collects, determine what the data is telling us, issue reports, identify missing information and how best to collect that data, and key metrics that indicate safety concerns.

### **AGA ONGOING ACTIONS**

- Promote the use of innovative rate mechanisms for faster repair, rehabilitation or replacement.
- Maintain a clearinghouse on effective cost-recovery mechanisms that states have used to fund infrastructure repair, replacement and rehabilitation projects.
- Support legislation that strengthens enforcement of damage prevention programs and 811
- Support the Common Ground Alliance, use of 811 and other programs that address excavation damage
- Continue the work of the AGA Best Practices Programs to identify superior performing companies and innovative work practices that can be shared with others to improve operations and safety.
- Continue the Plastic Pipe Database Committee's work to collect and analyze plastic material failures
- Promote the AGA Safety Culture Statement and a positive safety culture throughout the natural gas industry
- Conduct workshops, teleconferences and other events to share information including pipeline safety reauthorization, DIMP/TIMP, fitness for service, records, in-line inspection, emergency response, and other key safety initiatives
- Hold an annual executive leadership safety summit.
- Recognize statistical top safety performers, promote safety performance and encourage knowledge sharing through AGA Safety Awards
- Support PHMSA and NAPSRS workshops and other events
- Search for new and innovative ways to inform, engage and provide appropriate information to stakeholders, including emergency responders, public officials, excavators, consumers, safety advocates, and the public living near pipelines
- Participate in the Pipeline Safety Trust's annual conference to provide information on distribution and intrastate transmission pipelines, AGA and industry initiatives, and receive input
- Build an active coalition of AGA member representatives to work with PHMSA and other stakeholders to implement PIPA recommended practices pertaining to encroachment around existing transmission pipelines
- Advocate to state commissioners the inclusion of research funding in rate cases in an effort to increase funding for R&D
- Work with PHMSA and other stakeholders on opportunities to increase R&D funding and deployment of technologies
- Advocate acceptance of technologies that can improve safety
- Develop publications dedicated to improving safety and operations

## **AGA's Commitment to Enhancing Safety: AGA Actions Continued**

### **AGA ACTIONS WITH TARGET DATES**

- Develop guidance to determine a distribution or transmission pipeline's fitness for service and MAOP, and the critical records needed for that determination. **(5/30/12) - Completed**
- Create a Safety Alert Notification System that will allow AGA or its members to quickly notify other AGA members of safety issues that require immediate attention. **(5/30/12) - Completed**
- Develop a more comprehensive technical paper that presents benefits and disadvantages of the installation of ASV/RCV block valves on new, fully replaced and existing transmission pipelines. **(9/30/12) – Completed**
- Create technical guidance for oversight of new construction tasks to ensure quality. **(12/31/12) – Completed** (Track progress of industry's implementation of guidelines and summarize results annually)
- Utilize DIMP to evaluate the risks associated with trenchless pipeline techniques and implement, where necessary, initiatives to prevent and mitigate those risks. **(12/31/12) – Completed. Guidance created for new installations. Multiple events to highlight how different companies are addressing the potential risk associated with historic trenchless pipe installations.**
- Based on the results of the safety management study, identify and begin to implement initiatives that will enhance the appropriate sharing of safety information. **(12/31/12) – Safety management study complete. New key initiative: Pilot test of Peer-to-Peer reviews. Reviews began mid-2013 and remaining reviews to be completed by April 2014**
- Include meter protection in 2013 AGA Distribution Best Practices Program. **(9/30/13) – Completed. Topic included in the 2013 Best Practices Program.**

### **AGA ACTIONS – TARGET DATES NOT APPLICABLE**

- Work with PHMSA and distribution operators on ways to address risk to meters from vehicular damage, natural and other outside forces.
- Engage PHMSA and NAPSRS in discussions on whether TIMP should be expanded beyond HCAs and the benefits and challenges of applying integrity management principles to additional areas.
- Highlight in DOT workshops, NAPSRS meetings and discussions with Government Accountability Office that: 1) Many AGA members are required to manage DIMP and TIMP programs that overlap. The effectiveness, inefficiencies and duplication of multiple integrity management programs must be explored. 2) Low-stress pipelines operating below 30% SMYS should be treated differently.
- Work with industry and regulators to evaluate how the grandfather clause can be modified to reduce and/or effectively eliminate its use for transmission pipelines.
- Work with industry and regulators on meaningful metrics, including leading indicators, that indicate pipeline safety issues
- Work with other stakeholders to develop potential technological solutions that allow for tracking and traceability of new pipeline components (pipe, valves, fittings and other appurtenances attached to the pipe).
- Develop guidelines that provide for an improved level of engagement between operators and excavators.
- Work with PHMSA to establish time limits for telephonic or electronic notice of reportable incidents to the National Response Center after the time of confirmed discovery by operator that an incident meets PHMSA incident reporting requirements
- Work with other stakeholders to improve pipeline safety data collection and analysis, convert data into meaningful information, determine opportunities to improve safety based on data analysis, identify gaps in the data collected by PHMSA and others, and communicate consistent messages based on the data.
- Pilot application of PIPA guidelines with select member utilities.