

# Cross Bores in Pennsylvania :



**“Leaving a  
Legacy  
of Safety”**

**Utility Public Safety Alliance  
Weehawken, NJ  
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## **Eric Swartley – UGI Utilities, Inc.**

- Sr. Manager Damage Prevention, Claims & Public Awareness
- 38 years experience in Gas Distribution
- PA One-Call Board of Directors & Chair - Cross Bore Task Force
- Common Ground Alliance - Co-Chair Stakeholder Advocacy Committee & Best Practices Committee Cross Bore TR
- AGA Peer to Peer Review Group
- Northeast Gas Distribution Council Board of Directors

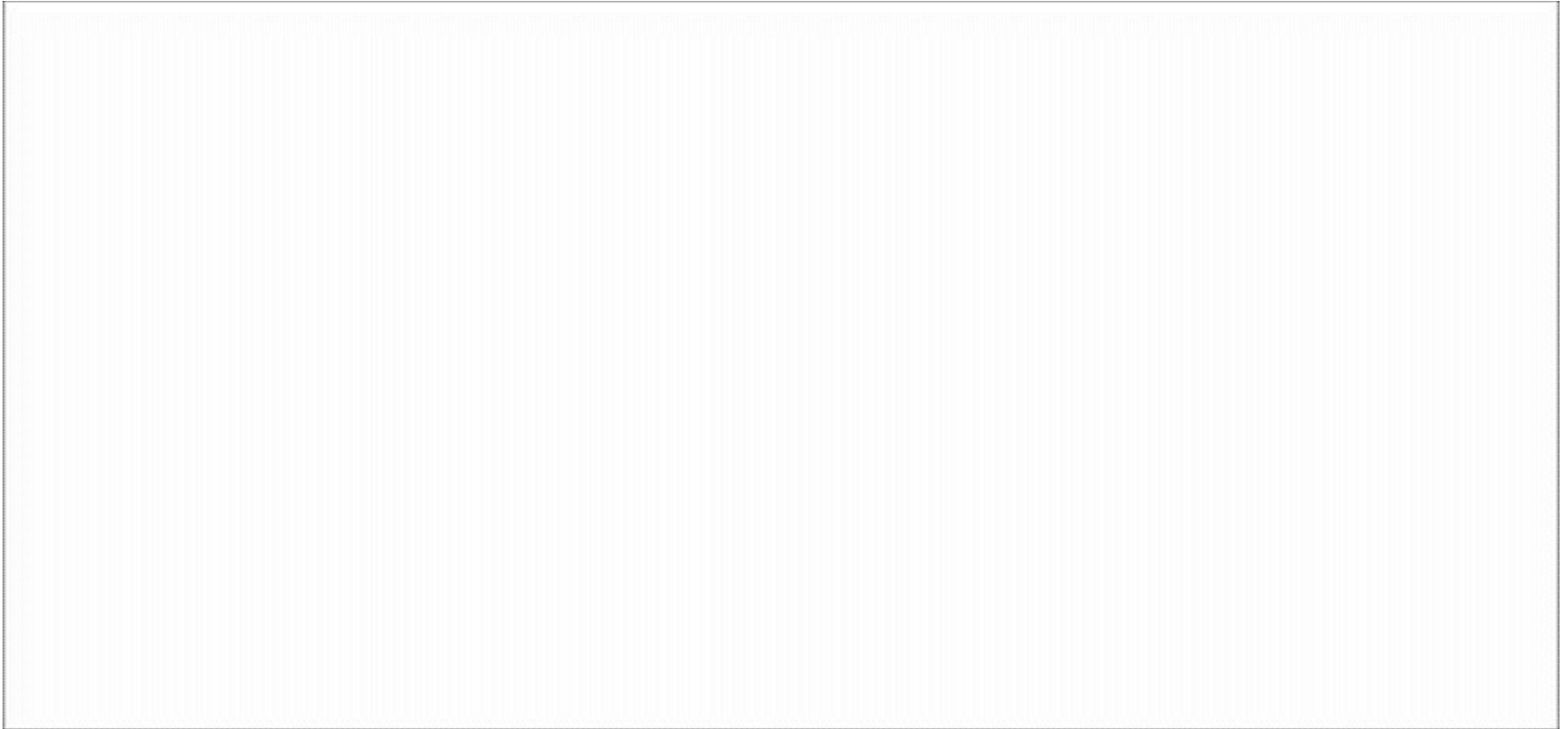
## Discussion items



- What's a Cross Bore?
- PA Cross Bore Journey
- Two-tiers of Cross Bores *or What's in your DIMP Plan?*
- One Call - Cross Bore Task Force, aren't they the 811 People?
- Promoting the "Million Dollar Call"
- The Path Ahead



We are all Homeowners



# What does a Legacy Cross Bore look like?



It is important to understand, any facility installed using “Trenchless Excavation” can create a Cross Bore unless measures are taken in the design and/or construction phases to eliminate the potential.

- **2013 Cross Bore issue arrives in PA**
  - Columbia Gas self reports
  - Harrisburg Plumber inquires
  - \* PUC sends FL 3-13 to PA Gas operators
  - Pennsylvania One-Call System forms Cross Bore Task Force
- **Cross Bore Task Force (CBTF ) goal is to determine POCS role and make recommendations to the One Call Board on any actions items.**
- **CBTF defined Cross Bores as a two-tiered issue;**
  - Legacy – those Cross Bores that exist today and create a risk/liability
  - Prevention – responsible use of trenchless excavation
- **PA Gas Utilities assess risk & gain a better understanding of Cross Bores**

# \*Public Utility Inquiry?



## December 2013 Public Utility Commission inquiry of PA Gas companies regarding;

- 1) Past boring installation procedures and effective date of present procedures that eliminate Cross Bore potential.
- 2) Assess risk of legacy cross bores in your system
- 3) Develop a mitigation plan dependent on #2 above.
- 4) Provide a Public Awareness Plan for plumbers and the public regarding cross bores.





# Two-Tiers and What's in Your DIMP Plan?



## Legacy

- Those that exist and create a risk
- How have you assessed your risk?
- Have you reviewed your Claims history?
- Is your method of installation well documented?
- Did you complete Field Inspections?
- What did your results suggest?
- Do you educate and document in your Public Awareness Plan?

## Prevention

- Are you making new Cross Bores?
- Do your Standards support risk reduction?
- Does your One Call statute require spotting/accounting for all crossings when using trenchless excavation?
- How are you confirming installations don't create new Cross Bores?
  - Inspection
  - Spotting
  - Pre and/or Post Camera
  - Leaving it to the Installer



Cross-Bored Laterals Can Be Found in Any  
Community....  
Including Yours



Or Any City!



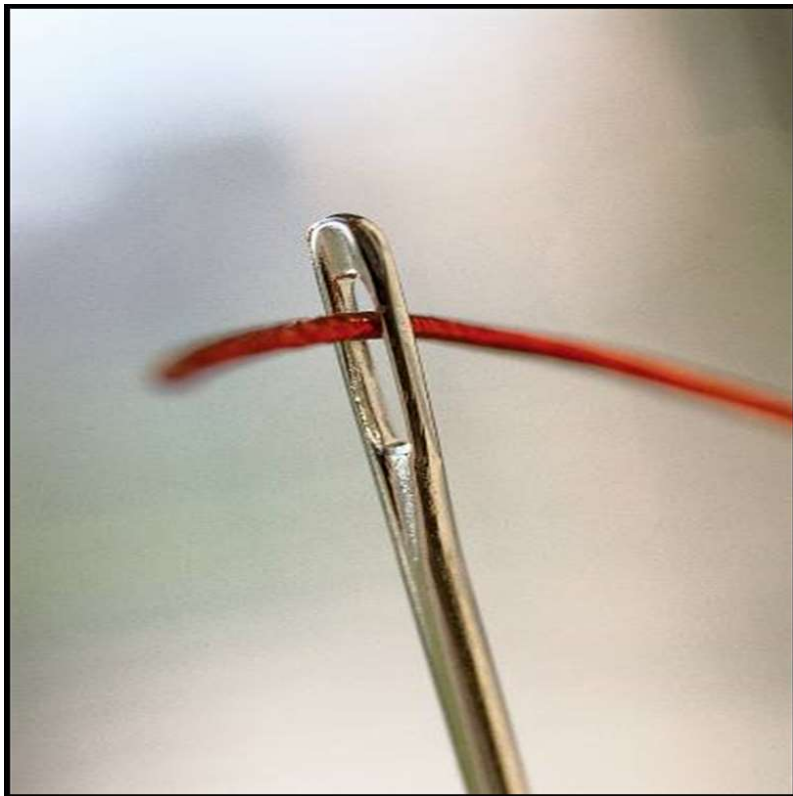
Has anyone checked this location for a CB?



## Sheraton Lincoln Harbor Hotel



## It's about Accuracy & Accountability



- PA One Call Law - Underground Utility Line Protection Act of – 2006 as amended. (Section 5, article 11.2)
- Adopted NASTT's - HDD Good Practices Guidelines.
- Requires positive confirmation of all facility crossings and also provides requirements for when running parallel to an existing facility if using trenchless excavation methods.
- Past Construction Practices are an excellent predictor of future Cross Bores.



Trenchless Technologies have been in use to install utility lines for 40+ years.



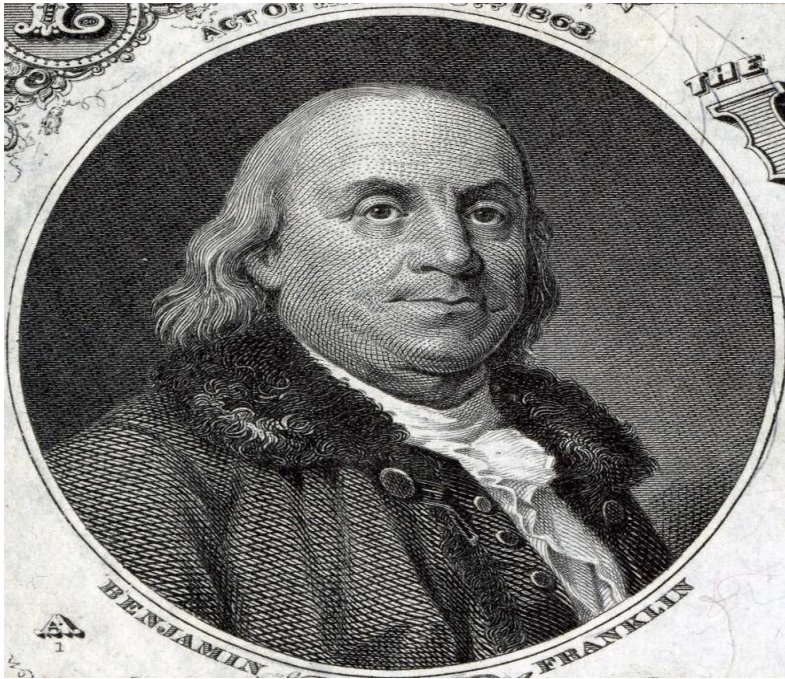
**Horizontal Directional Drilling**



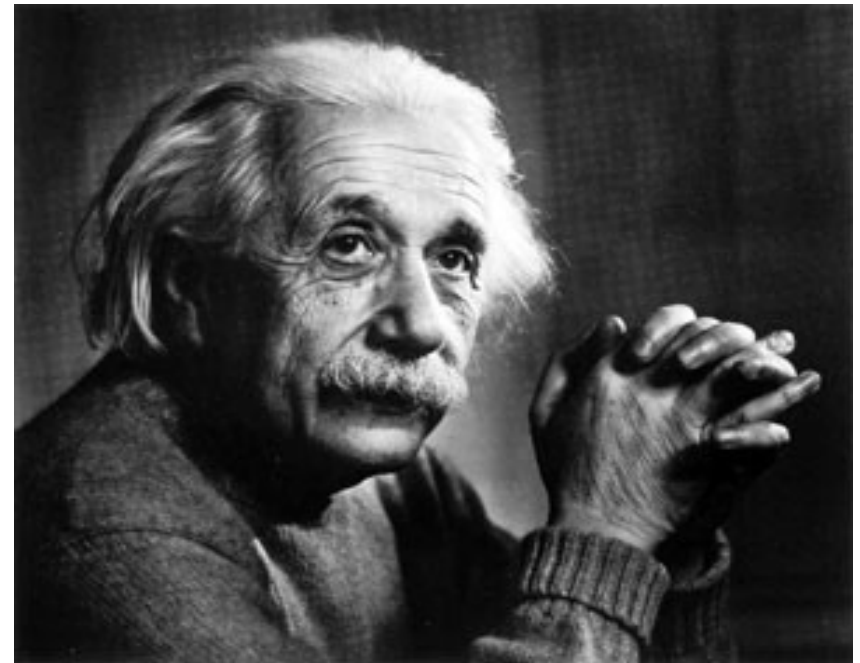
**Pneumatic Missiles**



## Preventing Future Cross Bores: Two schools of thought?



**An ounce of prevention is worth a pound of cure.**



**The definition of insanity is repeating the same behavior and expecting a different outcome.**

Legacy inspection results and reports of Cross Bores support the need for a more responsible Design & Construction Process as it relates to Cross Bores.

# PA One Call – Cross Bore Task Force



- Formed in December 2013 in response to a PUC Cross Bore inquiry of the Natural Gas Distribution companies in Pennsylvania
- By design, a diverse group of stakeholders
- Developed (6) recommendations:
  1. Develop a “Call Before You Clear” 811 Ticket Type
  2. Develop educational material for plumbers, sewer operators & rental centers
  3. Develop material for Excavators that promotes responsible use of Trenchless Technologies
  4. Develop a strategy to address the marking of sewer laterals when a One Call is placed
  5. Promote a change in the specifications for sewer lateral installations that would include a requirement to be locatable using standard industry technologies
  6. Develop an “automated response” to a One Call notification where trenchless excavation is the method of installation i.e. (HDD, missiles, augers, etc.)



# Cross Bore Task Force Members



- Greg Dunlap – Central Penn DD
- *Mike Kyle – Lancaster Area Sewer Authority*
- Jerry Contino – Columbia Gas
- *Ray Geesey – Columbia Gas*
- Brandon Bogdon\* - PA American Water
- Sunil Patel\* - PA PUC
- *Eric Swartley – UGI Utilities*
- *Tim Greenland – NUCA*
- Walt Kryzanowski – President, Local 690
- *Dean Rainville\* - National Fuel Gas*
- Mike McGraw Sr. – PA Plumbing, Heating, Cooling Contractors
- Deb Kitner – Energy Association of PA
- Chris Schillinger – PPL Electric
- Jason Peters – Lehigh County Authority
- Charlie McCadden – BG&E
- *Doug Meeshaw – PA Home Builder Assoc.*
- *Don Zombek - People's Gas*
- Brian Camfield\* – PECO
- David Bonner\* - PECO
- John Galligan – The PipeShark, Principal
- *Armando Ferri – J Paris Excavating/NUCA*
- Robb Kalbach – Utility Service Group

*Italicized = PA One Call Board Member or Alternate*

*\* Replaced original Task Force Member*

# Status in PA Today



- ✓ Acquired approval from Minnesota to use their “Call Before You Clear” tagline.
- ✓ Approval from People’s Gas to use the “Blue Boar” logo
- ✓ “Call B4 You Clear” Emergency Ticket Type went live 7/27/16.
- ✓ Public Awareness in the form of Education & Outreach.
  - Stakeholder Questionnaire
  - Stakeholder brochure (mailed 12/2017)
  - Educational Video/PPT
  - Wastewater & Trade magazine article
  - Recent partnership with PA PHCC
- ❖ **It’s all about Safety!**



# What's a "Million Dollar Call"?



- Is it Ed McMahon showing up at your front door with a check?
- Is it a heads up for a phishing scam on the Internet that hacks your checking account?
- Is it a Drain Clearer in PA, calling 811, and reporting a potential Cross Bore?
  - Cost of a reportable incident with no injuries or fatalities begins at \$1MM.
  - Education & raising awareness should include a process that provides a safety net.
  - Don't spend the valuable time to re-invent the wheel
  - One Call already has the infrastructure to apply a "Call Before You Clear" program. Make the CALL!



# The Path Ahead



- Pittsburgh - April 26<sup>th</sup> & 27<sup>th</sup> Cross Bore Technology & Education, join us!
- Plumber relationships are key, contact your State PHCC Chapter.
- Employees are your greatest Ambassadors, educate them!
- Public & Customer facing campaigns (bill stuffers/social media/swag).
- **If you're a CGA Member, support adoption of TR 2014-02 Cross Bores, currently in front of the Best Practices Committee.**
- This industry is incredible in regard to sharing, other considerations:
  - Rental Center warning tag program (Avista)
  - Sewer line basement warning hanger/tag (National Grid)
  - Plumber incentives – Bounty program (UGI)
  - On Line Learning Systems (NiSource/Columbia Gas)



For additional Information:

Cross Bore Safety Association

[www.crossboresafety.org](http://www.crossboresafety.org)

Pennsylvania One Call

[www.pa1call.org](http://www.pa1call.org)



