

# Gas Pipeline Safety Division Newsletter

TENNESSEE PUBLIC UTILITY COMMISSION 502 Deaderick Street, 4th Floor Nashville, Tennessee 37243 https://www.tn.gov/tpuc/

- February 2019 -

## Director's Corner by: Pete Hut, PE

Winston Churchill once said, "Give us the tools, and we will finish the job" (1941). One of our many goals for 2019 is to provide technical assistance to help you "finish the job." When a GPSD safety inspection of your gas system results in a probable violation citation or recommendation, we will be available to provide technical assistance, if you want it. All you have to do is ask! We want to help you achieve and maintain compliance, so please don't hesitate to let us know if you need help.

It is my pleasure to announce that Travis Aslinger has been appointed as the new GPSD Deputy Director. In his new role, he will manage the day to day scheduling of inspections/ training and provide oversight of the TPUC Utility Inspectors. With his guidance, we look forward to a marked improvement in efficiency for the GSPD.

The main emphasis for inspections this year will be on regulator, relief, and odorization (RRO). It is important to observe all types and sizes of regulators used by each operator. Many low pressure regulators have not been inspected recently. This has become of higher importance following the incidents in Massachusetts. Operator qualification tasks will be reviewed and observed on all inspections.

We will also start paying closer attention to natural gas pipeline construction activities in the state. Operator qualification for construction-related tasks is required. Tasks include but are not limited to pressure testing, tapping, and purging. Current certification for welding and fusion must be available. Please send us notification when you plan a significant construction project.

As always, all of the inspection related forms we will be using can be found on the Tennessee Public Utility Commission web page (<u>https://www.tn.gov/tpuc/divisions/gas-pipeline-</u> <u>safety-division.html</u>). So, take a look at them and let us know if you have any questions. We expect to begin the RRO safety inspections sometime around the middle of this month.

Our phone lines and emails are always open if you have questions, concerns, or need assistance with any aspect of natural gas pipeline safety. Let us be a tool toward your success in finishing the job.

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## **PHMSA's New Plastic Pipe Rule**

PHMSA's final "Plastic Pipe Rule" was published in the Federal Register on November 20, 2018 and is effective as of January 22, 2019. The new rule includes many revisions and amendments to code requirements as related to plastic pipe and components. As a convenience to our operators, a summary of the more substantive and commonly applicable requirements of the new rule is hereby provided. Please contact your assigned Gas Pipeline Safety Division inspector if you have questions or require clarification.

- The rule amendments apply to new, repaired, and replaced pipelines as of the rule effective date. They are *not* retroactive.
- All plastic pipe and components (e.g., valves, fittings) must meet applicable listed specifications referenced in §192.7 and Appendix B to Part 192.
- ASTM D2513-12ae1 ("Standard Specification for PE Gas Pressure Pipe, Tubing, and Fittings") has now replaced ASTM D2513-09a and ASTM D2513-99 in code.
- Written procedures must now be developed and implemented for the storage and handling of plastic pipe and associated components. (§192.67)
- The design factor (DF) in the design pressure equation for new polyethylene (PE) pipe installations has been increased from 0.32 to 0.40. (§192.121)
- Heat fusion (except for electrofusion) joints for PE pipe or components must now comply with ASTM F2620-12 ("Standard Practice for Heat Fusion Joining of Polyethylene Pipe and Fittings").
  (§192.281(c) and §192.285(b)(2)(i))
- Only Category I mechanical fittings/joints may now be used. (§192.281(e)(3), (4); §192.283(b); §192.367(b)(3)).
- An operator may not install plastic pipe with a bend radius that is less than the minimum bend radius specified by the manufacturer for the diameter of the pipe being installed. (§192.313(d))
- New requirements for trenchless excavation (i.e., cross-boring) have been added. (§192.329 and §192.376)
- Newly installed, electrically isolated, metal alloy fittings in plastic pipelines must be cathodically protected unless current exemptions for use of such fittings are satisfied. CP monitoring is not required; however, the fittings must be maintained in accordance with the operator's integrity management plan. (§192.455(g))
- The use of mechanical leak repair clamps is now prohibited as a permanent repair method on plastic gas distribution pipelines. (§192.720)
- Operators must maintain plastic pipe joining equipment in accordance with the manufacturer's recommended practices or with written procedures that have been proven by test and experience to produce acceptable joints. (§192.756)

It should also be noted that previously proposed requirements in May 2015 for tracking and traceability recordkeeping as related to plastic pipe and components were not finalized. Final action on these proposals has been delayed by PHMSA until an unspecified later date.



## Gas Pipeline Safety Division Newsletter

## **ELECTROFUSION ADVISORY UPDATE**

At this time, there are no changes or updates to the *Electrofusion Advisory* sent in 2017. Gas Pipeline Safety accepts electrofusion as a safe and compliant method when performed in regards to PHMSA rules and manufacturer guidelines.

No definitive causes or correlations were determined or identified by Gas Pipeline Safety relating to the operation or performance of any electrofusion machine for incidents involved in the issuance of the advisory bulletin.

As with any mechanical or electrical device, the operator should monitor the device during performance for proper operation. All electrofusion machines should be properly calibrated, in accordance to manufacturer's procedures, and be inspected for proper working order prior to performing any electrofusion.

Operators are reminded to include abnormal operating conditions in procedures as instructed in the safety advisory. If any problems or concerns do arise with any electrofusion machine, operators are encouraged to contact Gas Pipeline Safety if assistance is needed.

## LEAK DOCUMENTATION and YOUR DIMP

A substantial number of the DIMP inspections performed in 2018 revealed that some operators were not properly reporting their leaks on the PHMSA Annual Report form. In DIMP, the risks to an operator's system are identified based on the information from leak documentation and repairs. Leak documentation should include leak location (i.e. address, physical location), date found, and cause (if known). Cause of the leak is very important and should be carefully analyzed. This will allow DIMP to accurately predict actions needed to address possible outcomes.

PHMSA defines a leak as, "...an unintentional escape of gas from the pipeline." Do NOT report a leak determined to be non-hazardous and eliminated by lubrication, adjustment, or tightening. Also, leak grading (1, 2, and 3) is shown in the Tennessee Regulations for Gas Companies under 1220-04-05-.44 Gas Leak Classification, (<u>https://publications.tnsosfiles.com/rules/1220/1220-04/1220-04-05.20180427.pdf</u>). Some operators have determined the best way to maintain leak documentation is to put the leak information into specific categories based on the PHMSA Annual Report Form (DOT Form 7100.1-1) Part C. Leak calls determined not to be a leak were put in a separate "no leak folder." Each operator should determine their best method to record and maintain leak documentation.

Technical assistance and training for DIMP will be provided by TPUC in conjunction with the TGA beginning in May through June of this year. Please contact TGA to sign up for the one day training class offered in your area of the state. A stipend may be available to assist in defraying the cost for you to attend the class. It is recommended that your DIMP be updated and analyzed yearly for best results!! This training can assist you with this important task.

## TENNESSEE PUBLIC UTILITY COMMISSION GAS PIPELINE SAFETY DIVISION

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## Gas Pipeline Safety Division Newsletter



TPUC Gas Pipeline Safety Division: (L to R) Travis Aslinger, Ted Wilkinson, Tim Thompson, Diana Hawkins, Phill Hendricks, Shinisha Freeman, Pete Hut, Regina Brown, Vicky Nelson

## **HAZARDS** of **STATIC**

While almost everyone would recognize 'fire' as a risk associated with natural gas, some of the potential ignition sources are not so obvious. Static electricity in particular is something that most people don't think much about, and even when we do encounter it in an everyday context—getting a shock from a doorknob, or peeling freshly dried laundry apart—it seems at worst a harmless nuisance. Mix static electricity with natural gas, though, and you've got the ingredients for a serious fire or explosion.

Static electricity is usually generated when non-conductive materials rub against each other; whether it's clothes tumbling in a dryer, or dust and scale particles blowing through a segment of polyethylene gas pipe, the mechanism is the same. During this contact, some electrons are rubbed off of one material (which acquires a positive charge) and onto another (which becomes negative). As more charge is developed, the stronger the potential for a discharge. The displaced electrons want to get back to a more neutral, balanced or grounded state.

It is especially critical to employ appropriate anti-static measures when performing operations that involve gas escaping from the pipe into the atmosphere, like leak repairs or line purging. Some activities such as using a squeeze-off tool will actually increase the static potential by creating additional friction in the gas flow. This is one reason to use squeeze-off tools in separate bell holes, away from a source of blowing gas. <u>All tools should be grounded</u>. The surface of the pipe itself should be thoroughly wetted with some kind of anti-static solution (such as soapy water) to dissipate static build-up. A natural fabric like burlap may be wetted and wrapped around the pipe to keep the solution in contact with the surface; the ends of the fabric should be either in direct contact with the soil or electrically connected via a grounding rod.

When purging significant volumes of gas, steel pipe should be used to discharge the vented gas; the turbulent gas flow at the mouth of the stack will quickly build up a charge on plastic pipe. For safety, it is also advisable to put discharge points well

above ground (e.g., above head height) to avoid creating combustible gas-air mixtures near the ground or inside an excavated pit.

Operators' written procedures and employee OQ materials should reflect the risks associated with static discharges and address how to cope with them. 49 CFR §192.751 specifically requires operators to minimize the risk of accidental ignition when working with possible gas-air mixtures. Industry groups, government agencies, and product vendors provide a number of resources and guidance materials available to help you reduce static hazards. Don't overlook help from your neighboring utilities, as well. Here are some useful starting points:

https://www.aga.org/research/reports/purging-principles--practice/

https://www.osha.gov/dts/hib/hib\_data/hib19880930.html

http://www.kcc.state.ks.us/images/PDFs/pipeline/2013-seminar/ controlling\_static\_electricity.pdf

https://www.pe100plus.com/PE-Pipes/Technical-guidance/model/ operation/electricity/suggestions-i285.html



Please share this newsletter with anyone who might have an interest.

#### **UUDP Reporting Requirements Reminder!**

The Underground Utility Damage Prevention Act (65-31-102 and 65-31-111) requires operators whose utility facilities have been damaged to report the incident using the Damage Information Reporting Tool (DIRT).

The Act does not define "damage" as damage resulting from <u>only a third party</u>. Operators who have incurred a "first" party damage are also required to report the damage in DIRT.

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2	Athens (774)	Hawkins	50 Newbern (13430)
3	Bells (30618)	Brown	51 Obion (14040)
4	Bolivar (1616)	Wilkinson	52 Parsons (15140)
5	Brownsville (1840)	Thompson	53 Pikeville (15560)
6	Centerville (2176)	Wilkinson	54 Portland (15784)
7	Clarksville (2460)	Hawkins	55 Pulaski (15966)
8	Clifton (972)	Hawkins	56 Red Boiling Spring
9	Collinwood (2556)	Brown	57 Ridgetop (17400)
10	Cookeville (2764)	Wilkinson	58 Ripley (17470)
11	Covington (2853)	Thompson	59 Rockwood (17600
12	Dickson (6716)	Wilkinson	60 Saint Joseph (300
13	Dunlap (3610)	Freeman	61 Savannah (18124)
	Dyersburg (3660)	Brown	62 Selmer (18176)
15	Englewood (4480)	Brown	63 Smyrna (18368)
16	Etowah (4567)	Wilkinson	64 Somerville (18392
17	Fayetteville (5110)	Thompson	65 South Fulton (184
18	Friendship (5640)	Thompson	66 Springfield (1859
19	Gallatin (6040)	Brown	67 Sweetwater (1876
20	Gallaway (6035)	Freeman	68 Troy (19710)
21	Halls (7025)	Hawkins	69 Waynesboro (223
22	Harriman (7090)	Freeman	
23	Henderson (7215)	Hendricks	
24	Henning (7225)	Freeman	
25	Hohenwald (7310)	Hendricks	
26	Humboldt (7650)	Hendricks	
27	Jackson (9040)	Hawkins	
28	Jamestown (9100)	Brown	<u>Utili</u>
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32	Lebanon (11336)	Freeman	4 Clay Gas (31315)
33	Lenoir City (11376)	Hawkins	5 Crockett Public (2
34	Lewisburg (11416)	Wilkinson	6 Elk River Public (4
35	Lexington (11448)	Wilkinson	7 Gibson County (63
36	Linden (11520)	Freeman	8 Hardeman-Fayett
37	Livingston (11600)	Hendricks	9 Hawkins County (
38	Lobelville (11624)	Freeman	10 Horton Highway (
39	Loretto (11752)	Hawkins	11 Humphreys Count
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41	Madisonville (12042)	Freeman	13 Lake County (111)
42	Marion (12168)	Thompson	14 Middle TN Crossvi
43	Martin (12204)	Hendricks	15 Middle TN Dayton
44	Mason (12222)	Freeman	16 Middle TN McMinr
45	Maury City (12234)	Hawkins	17 Middle TN Smithvi
	Memphis (12342)	Thompson	18 Middle TN Sparta
47	Middleton (39121)	Wilkinson	19 Oak Ridge (14010
48	Mount Pleasant (25126)	Thompson	20 Paris-Henry Coun

<u>Municipal</u>

Gas Pipeline Safety Division 2019 Inspection List

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		12 Navitas Byrdstown
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		14 Piedmont (15518)
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Municipal Cont.

Hendricks

Utility District Cor	<u>it.</u>
21 Poplar Grove (30669)	Thompson
22 Powell Valley (32165)	Hendricks
23 Powell-Clinch (15826)	Freeman
24 Sevier County (18192)	Wilkinson
25 Tipton County, First (19471)	Brown
26 Unicoi County (20030)	Hawkins
27 Volunteer Energy Co-op (32307)	Wilkinson
28 West Tennessee Public (22434)	Hendricks
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Liquefied Natural Gas 1 Memphis (12342) 2 Piedmont (15518)

Brown

Freeman

	MM Apartments/Condominiums			
1	Alexian Village (35982)	Thompson		
2	Georgetown Condominiums	Wilkinson		
3	Green Hills Terrace (35986)	Hawkins		
4	Johnson University (35989)	Brown		
5	Kirby Pines (35988)	Wilkinson		
6	Meridian Apts., The (35983)	Hendricks		
7	Pentad Crestview (35987)	Thompson		
8	Pentad Hillview (35987)	Hendricks		
9	Pentad Parkway East (35987)	Freeman		

#### Intrastate Transmission

1	AGC Flat Glass (32188)	Freeman
2	Atlas Energy (38884)	Wilkinson
3	Atmos Energy (2021 1)	Thompson
4	B&W Pipeline (32659)	Hendricks
5	Chattanooga Gas (2288)	Wilkinson
6	Coalfield (31725)	Hawkins
7	Domtar (39133)	Brown
8	General Gas (39126)	Thompson
9	Humphreys Co. U D (7655)	Freeman
10	Jefferson-Cocke Co. (9200)	Hawkins
11	Magnum Hunter (32624)	Brown
12	Memphis (12342)	Thompson
13	Piedmont (15518)	Thompson
14	Renewco (32681)	Hawkins
15	Scepter (31987)	Hendricks
16	Smelter (39343)	Hendricks

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