

NEPSR 2014 Eastern Region Meeting

Portsmouth, NH



Don Ledversis,
Rhode Island Division of Public Utilities
and Carriers



Know what's below.
Call before you dig.



This looks safe



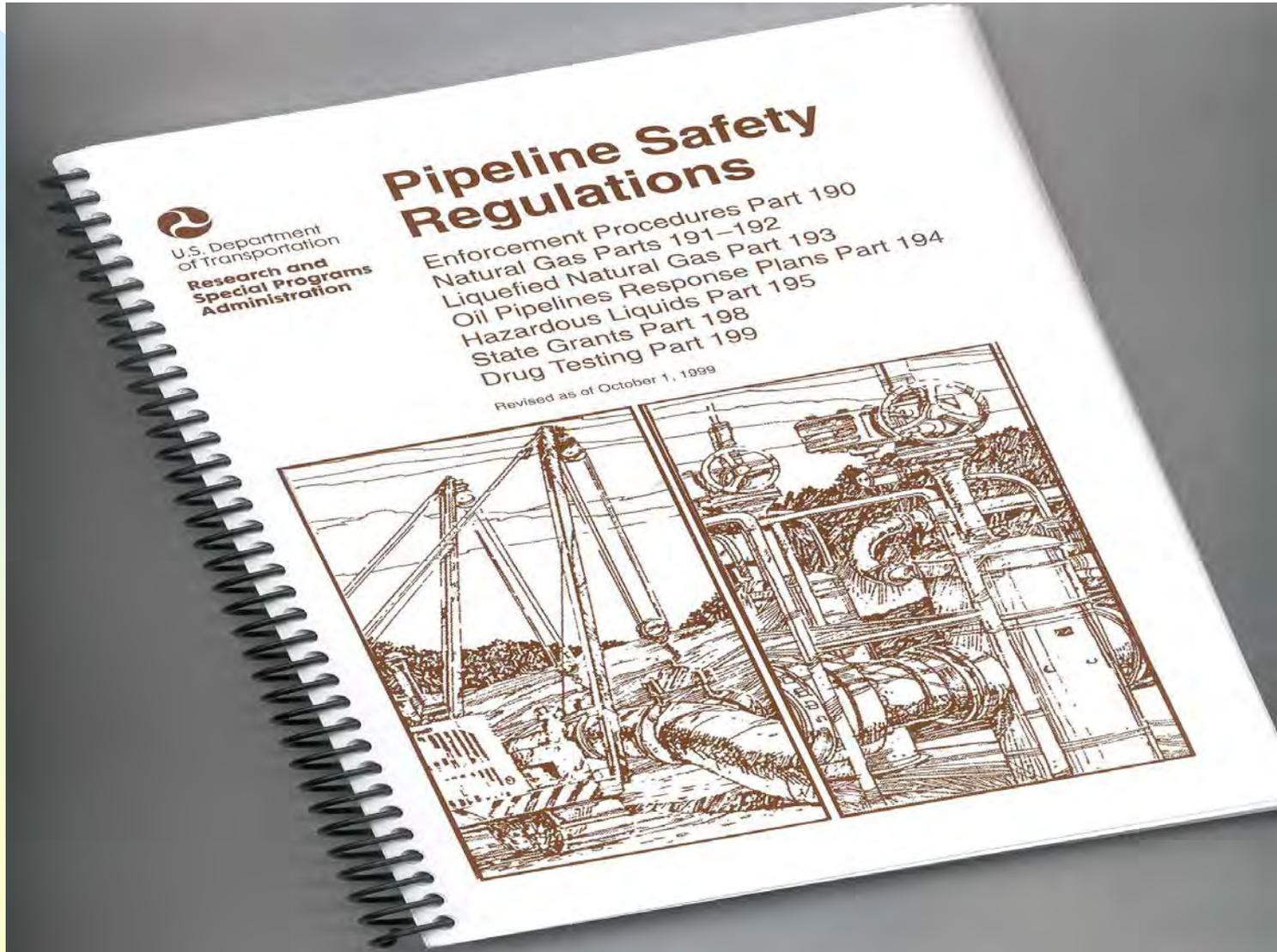
09/23/2014

Yes a Massachusetts driver



09/23/2014

Federal Code CFR 190-192





U.S. Department
of Transportation
**Research and
Special Programs
Administration**

Pipeline Safety Regulations

Enforcement Procedures Part 190
Natural Gas Parts 191–192

Natural Gas Part 193
Leak Detection and Repair Plans Part 194

**...It's an open
book test.**



A potential customer calls customer service requesting a gas meter installation on her existing meter bar located in the basement.

Customer Service replies:

"I've checked my maps and records you do not have a gas line going to your house."



Is there a violation?



Hint: Go to page xxx?

**Code §192.605(b)(3) Procedural
manual for operations, maintenance,
and emergencies**

*the operator is required to make...
records, maps, and operating history
available to appropriate operating
personnel.*

The Potential Customer replies:

“I had a plumber check the gas line coming into my house and he verified that there is live gas service here.”



09/25/2014

Customer Service replies:

"I've checked my maps and records you do not have a gas line going to your house. I will send out an application for a new gas line..."



Is there a violation?



Hint: Go to page xxx?

Code §192.727(d)(1)(2)(3)

Abandonment or deactivation of facilities

(d) Whenever service to a customer is discontinued, one of the following must be complied with:

(1) The valve that is closed to prevent the flow of gas to the customer must be provided with a locking device or other means designed to prevent the opening of the valve by persons other than those authorized by the operator.

(2) A mechanical device or fitting that will prevent the flow of gas must be installed in the service line or in the meter assembly.

(3) The customer's piping must be physically disconnected from the gas supply and the open pipe ends sealed.



09/25/2014



09/25/2014



Is there a violation?



Hint: Go to page xxx?

Code §192.723(a)(2) Distribution systems: Leakage surveys.

(a) Each operator of a distribution system shall conduct periodic leakage surveys in accordance with this section.

(2) A leakage survey with leak detector equipment must be conducted outside business districts as frequently as necessary, for cathodically unprotected distribution lines... a leakage survey must be conducted at least once every 3 calendar years at intervals not exceeding 39 months.

Rhode Island Gas Statistics



- **>256,001 customers**

Rhode Island Gas Statistics

- **> 3,175 miles
of main**





Company started in 1847

537

Cheer Building.
P. M. till 6

This Bill, if not paid to the Collector on Presentation, must be paid at the Office of the Company within 5 days from January.

Wm. Knight

To PROVIDENCE GAS COMPANY, Dr.

For Gas consumed from Sept. *21* to Dec. *31* 1866.

Index, *1179-1281 102*
" *48-63* } *15* *11700* Cubic Feet, } at \$3.50 per M.,
Free of Government Tax,
Rent of Meter 6 mos.

Received Payment for the Company,
Jan'y *14* 1867.

4090
\$ _____
Clerk.

Copies of Rules and Terms of Supply furnished at the Office.

In 2007

	Miles of Main				
	Unprotected Steel	Cast/Wrought Iron	Total Miles leak prone pipe	% of Total Miles leak prone pipe	Total Main Mileage
RHODE ISLAND Totals	711	908	1,619	52.3%	3,095
WASHINGTON DC Totals	102	451	553	46.4%	1,191
MASSACHUSETTS Totals	3,635	4,165	7,801	37.9%	20,574
WEST VIRGINIA Totals	3,409	14	3,424	35.9%	9,531
NEW YORK Totals	9,321	5,088	14,409	31.0%	46,464
PENNSYLVANIA Totals	10,526	1,901	12,427	26.8%	46,449
NEW JERSEY Totals	3,010	5,603	8,613	26.3%	32,755
CONNECTICUT Totals	283	1,640	1,923	25.6%	7,517
MAINE Totals	6	89	95	18.4%	516
MARYLAND Totals	602	1,467	2,068	15.2%	13,646
NEW HAMPSHIRE Totals	120	309	428	13.8%	3,096
VIRGINIA Totals	1,050	676	1,726	8.8%	19,692
DELAWARE Totals	67	124	191	7.4%	2,585

28,394

16,911

45,305

182,251

Fast Forward 6 years

later 2013

Gas Distribution Annual Report Mileage

Data as of 05/19/2014

REPORT YEAR 2013	Miles of Main				
	Unprotected Steel	Cast/Wrought Iron	Total Miles leak prone pipe	% leak prone pipe	Total Main Mileage
WASHINGTON DC TOTALS	92	418	510	42.6%	1,199
RHODE ISLAND TOTALS	508	831	1,339	42.1%	3,179
MASSACHUSETTS TOTALS	2,688	3,691	6,379	29.8%	21,383
WEST VIRGINIA TOTALS	3,042	14	3,056	28.5%	10,706
PENNSYLVANIA TOTALS	8,620	3,115	11,735	24.7%	47,548
NEW YORK TOTALS	7,548	4,254	11,803	24.6%	47,988
CONNECTICUT TOTALS	221	1,426	1,648	21.1%	7,822
NEW JERSEY TOTALS	2,252	4,881	7,133	20.9%	34,101
MARYLAND TOTALS	408	1,378	1,787	12.2%	14,607
NEW HAMPSHIRE TOTALS	50	125	174	9.2%	1,896
MAINE TOTALS	16	51	67	7.2%	937
VIRGINIA TOTALS	760	333	1,093	5.2%	20,942
DELAWARE TOTALS	41	86	128	4.3%	2,981

ARP Program 2013

Accelerated Replacement Program

Replaced 53 miles of CI/Bare Steel



53 Miles of main replacement



09/29/2014



53 Miles of temporary patch to replace

09/29/2014



Proposed DigSafe Rule Changes for 2015

What about shallow services?



08/28/2014

What about street milling?



06/30/2014

Found out in the field



Ed the plumber coming
to a theatre near you!



1/2in x 18in

1/2in x 18in





Joe the refrigeration repair man...





27/05/2009

Code §192.553(a)(1) Upgrading General Requirements

(a) Pressure increases. Whenever the requirements of this subpart require that an increase in operating pressure (must) be made in increments, the pressure must be increased gradually, at a rate that can be controlled, and in accordance with the following:

(1) At the end of each incremental increase, the pressure must be held constant while the entire segment of the pipeline that is affected is checked for leaks.

An OQ trained and qualified
plastic butt fusion contractor...

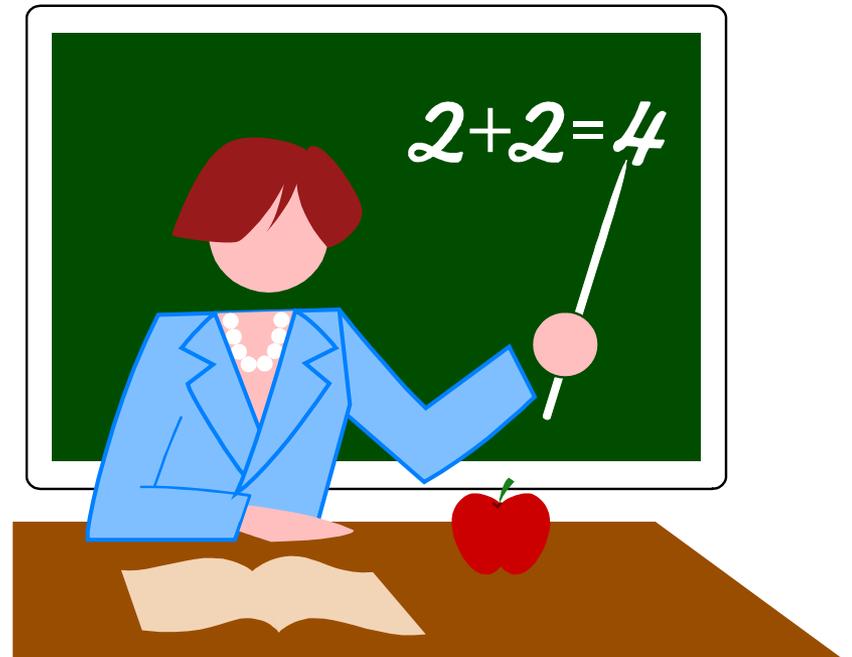


EXHIBIT "B"



2014 2013 Plastic Pipe Joining Qualification Program

Attendance and Evaluation Form

CLASS DATE: [redacted] Company: [redacted] Location: [redacted]
 (mm/dd/yy) Representative: [redacted] Billing Address: [redacted]

NAME (Last/First, M) PLEASE PRINT ALL NAMES IN ALPHABETICAL ORDER	Passed - Leave blank Failed - Enter F Didn't Take - Enter X								MECHANICAL COUPLINGS section b				ELECTRO FUSION section c		PE HEAT FUSIONS sections d, e, f, g				
	A	B	C	D	E	F	G	H	Bolt-on	Stub	Hydraulic	Threaded	Saddle	Coupling	Butt				
															Hydraulic	Coled	Straight	Saddle	Socket
[redacted]									P	P	P	P	P	P	P	P			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			

Soil Compaction Review: YES NO

Comments:

CERTIFIED BY: [redacted] DATE: [redacted]

REVISED December 2012
 Note: No credit given for the written test if Part A (General Knowledge) is failed
 *Soil Compaction review is mandatory yearly in Mass.!

2014 2013 Plastic Pipe Joining Qualification Program

Attendance and Evaluation Form

DATE: [REDACTED] Company: [REDACTED] Location: [REDACTED]
 (mm/dd/yy) Representative: [REDACTED] Billing Address: [REDACTED]

NAME (Last/First, M) PLEASE PRINT ALL NAMES IN ALPHABETICAL ORDER	Passed - Leave blank Failed - Enter F Didn't Take - Enter X								MECHANICAL COUPLINGS section b				ELECTRO FUSION section c		PE HEAT FUSIONS sections d, e, f, g					
	A	B	C	D	E	F	G	H	Bolt-on	Stab	Hydraulic Compress	Threaded	Saddle	Coupling	Butt			Saddle	Socket	
															Hydraulic	Coiled	Straight			
[REDACTED]						X	X													
[REDACTED]						X	X													
[REDACTED]						X	X													
[REDACTED]						X	X													
[REDACTED]						X	X													
[REDACTED]						X	X													
[REDACTED]						X	X													

Soil Compaction Review: YES NO
 Comments: [REDACTED]

CERTIFIED BY: [REDACTED] DATE: [REDACTED]

REVISED December 2012

No credit given for the written test if Part A (General Knowledge) is failed

*Soil Compaction review is mandatory yearly in Mass.

Does it pass the visual test?



Does it pass the visual test?



Impact Dents From A Reciprocating Saw

Does it pass the visual test?



Cross section



How about these?



Does it pass the pressure test?





Since 1984

Two DigSafe Rule Changes

39-1.2-5. Notice of excavation. -- Except as provided in section 39-1.2-9, any person, public agency or public utility responsible for excavating within one hundred feet (100') or for discharging explosives within one hundred feet (100') of a public utility facility shall notify the association of the proposed excavation or discharge at least seventy-two (72) hours, excluding Saturdays, Sundays, and holidays, but not more than thirty (30) days before commencing the excavation or discharge of explosives. Actual excavation must thereupon commence **within thirty (30) days** and be completed within sixty (60) days, including Saturdays, Sundays and holidays, or the excavator must re-notify the association. Each public utility shall, upon receipt of each notice of excavation, mark within seventy-two (72) hours or, where applicable in accordance with section 39-1.2-12, re-mark within forty-eight (48) hours, the location of all underground facilities.

(b) Each excavator shall provide a description of the excavation location which shall include;

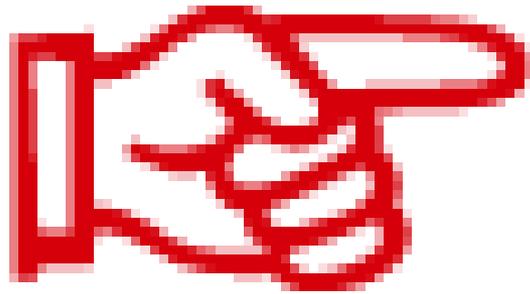
- (1) The name of the city or town where the excavation will take place;
- (2) The name of the street, way or route number where appropriate;
- (3) The name of the streets at the nearest intersection to the excavation;
- (4) The numbered address of buildings closest to the excavation;
- (5) Any other description which will accurately define the excavation location, including landmarks and utility pole numbers; and
- (6) The date and location of any blasting.

“I’m working at transformer #5”

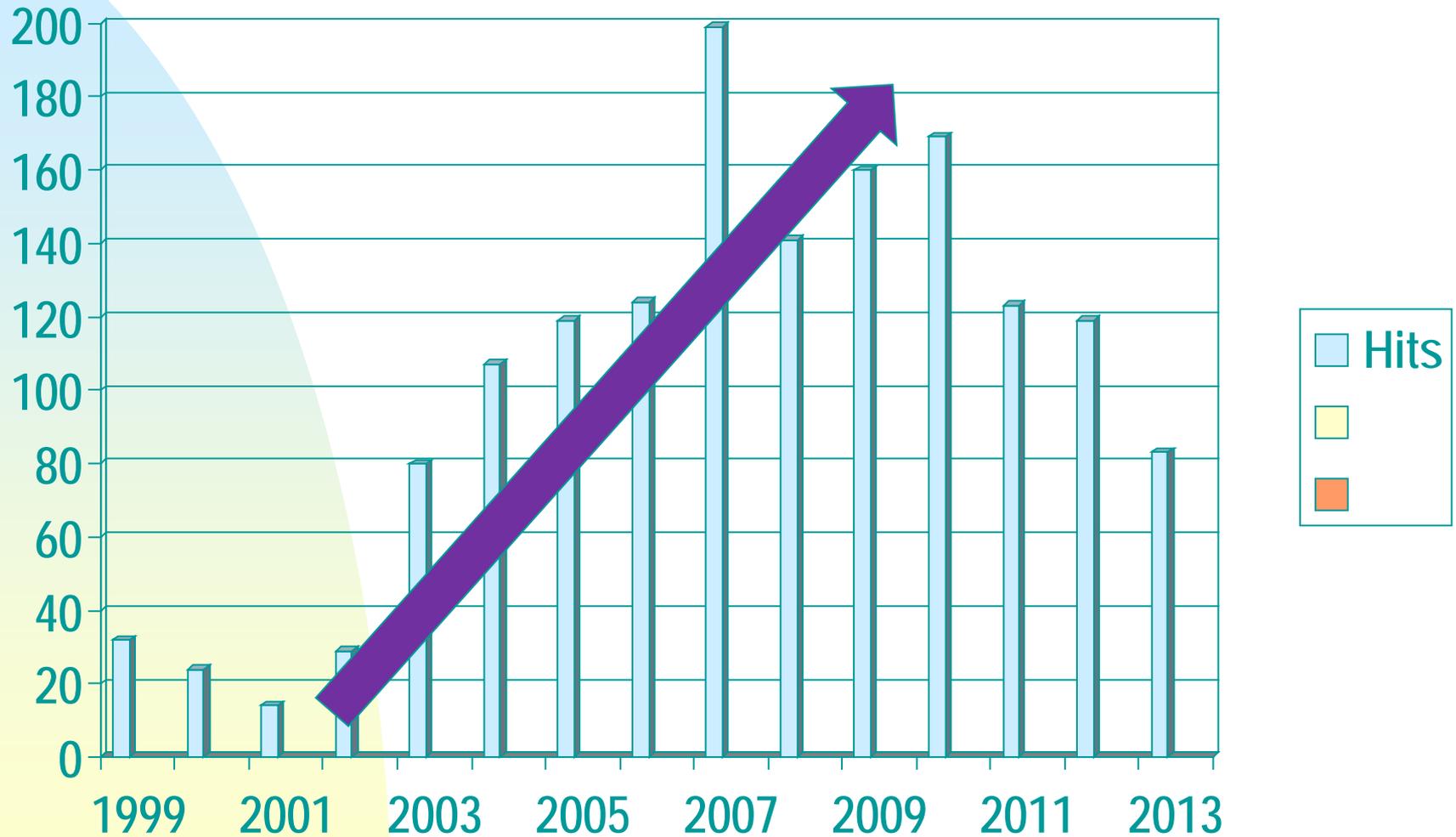


39-1.2-11. Damage - Notice to public utility. -- Upon the occurrence of any contact with or damage to any pipe, cable or its protective coating, or any other underground facility of a public utility, the appropriate or affected public utility shall be notified immediately by the person or public agency responsible for the operation causing the contact or damage prior to back filling the excavation. Upon the receipt of the notice, the public utility shall immediately dispatch personnel to the subject location to effect temporary or permanent repair of the damage. Under no circumstances shall the excavator back fill or conceal the damaged area until the public utility arrives at the subject location. Upon the occurrence of a serious electrical short, or the escape of dangerous fluids or gases from a broken line, the person or public agency responsible for the operations causing the damage shall evacuate the immediate area while awaiting the arrival of the public utility personnel.

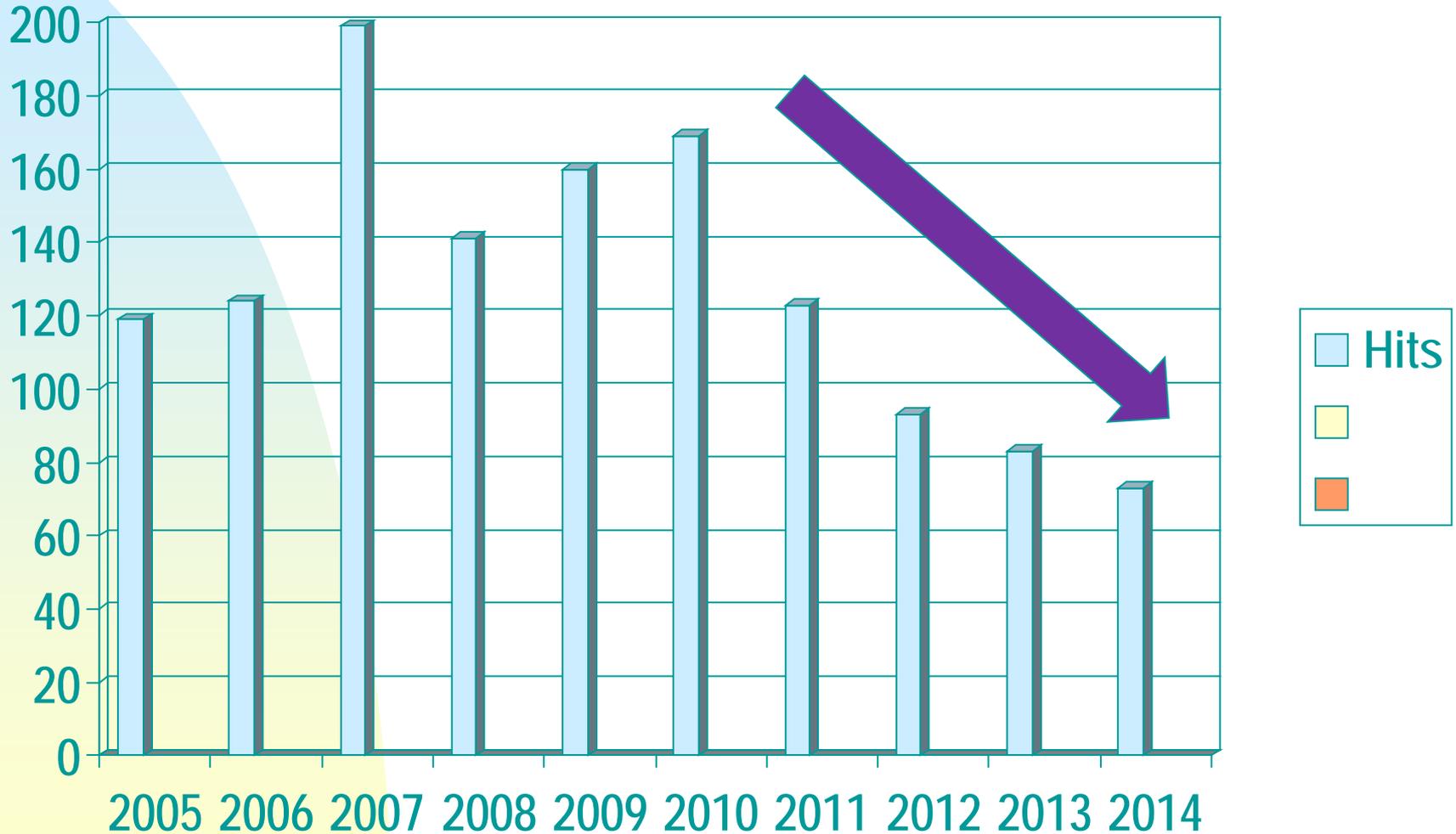
(b) Any person, public agency or public utility shall report all suspected violations of this chapter to the Division of Public Utilities within thirty (30) days after learning of the circumstances constituting the suspected violation.

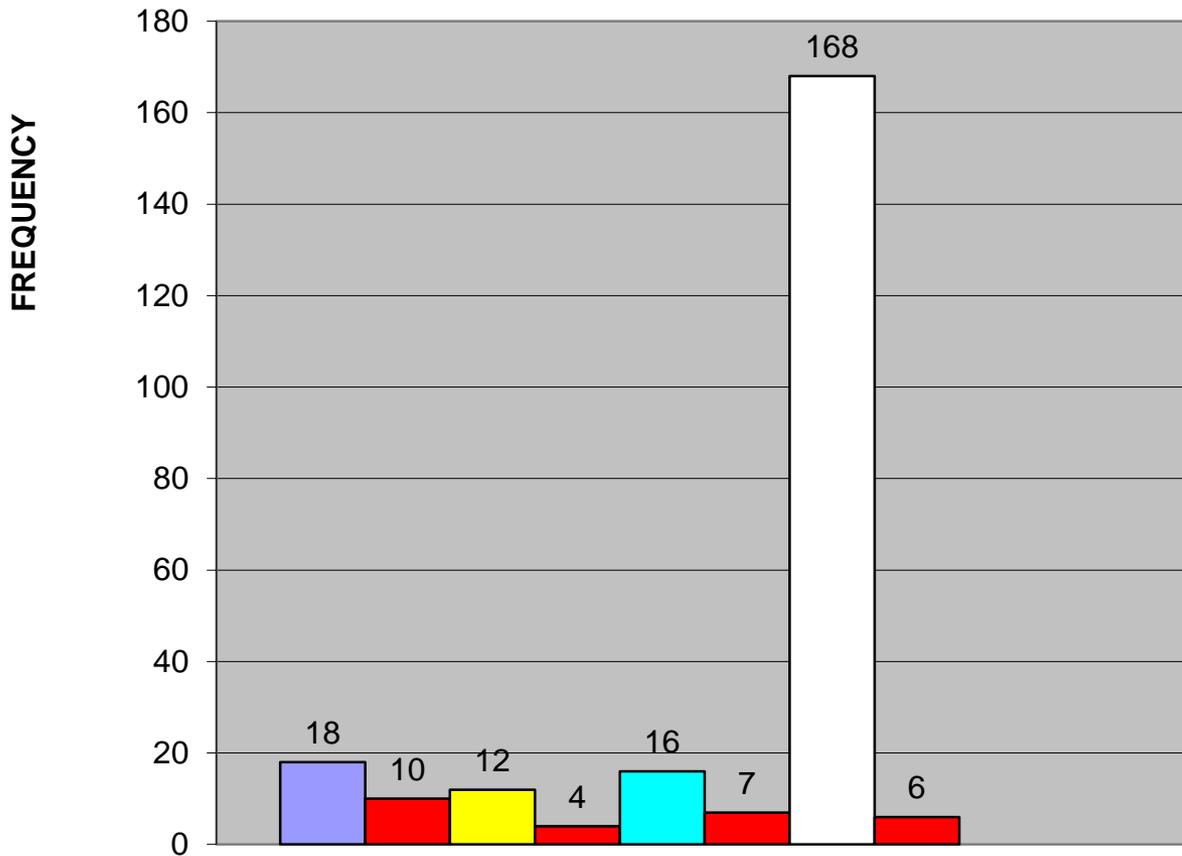


Gas line hits per year



Gas line hits per year





- NOTICE OF EXCAVATION
- FINE IMPOSED
- MARKING UTILITIES
- FINE IMPOSED
- WORK PROCEDURE
- FINE IMPOSED
- PRE-MARK
- FINE IMPOSED

DIG SAFE VIOLATIONS SEPTEMBER 2013 - SEPTEMBER 2014

DIG SAFE VIOLATIONS SEPTEMBER 2013 - SEPTEMBER 2014

NOTICE OF EXCAVATION	18	
FINE IMPOSED	10	\$2,800
MARKING UTILITIES	12	
FINE IMPOSED	4	\$1,800
WORK PROCEDURE	16	
FINE IMPOSED	7	\$3,400
PRE-MARK	168	
FINE IMPOSED	6	\$1,200
		<u>Total</u>
		\$8,200

2013 Gas line hits per 1000 tickets

51,882 tickets called in/88 gas line hits

= 1.69 hits per 1000 tickets

DigSafe Gas Lines Hit Per City

	<u>% of Total</u>
Providence	21.5%
Warwick	12.5%

"Almost" Reportable Incident 2013

**DEPARTMENT OF TRANSPORTATION
RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION
OFFICE OF PIPELINE SAFETY**



PIPELINE SAFETY REGULATIONS

PART 191

**ANNUAL REPORTS, INCIDENT REPORTS
AND
SAFETY RELATED CONDITION REPORTS
(Current through Amendment 14)**



27/04/2013



A 90 year old man attempting suicide

27/04/2013

"Almost" Reportable Incident 2013

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This labeled area caused by improper installation, city not not freely tearing as required at installation.

"Almost" Reportable Incident 2014

**DEPARTMENT OF TRANSPORTATION
RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION
OFFICE OF PIPELINE SAFETY**

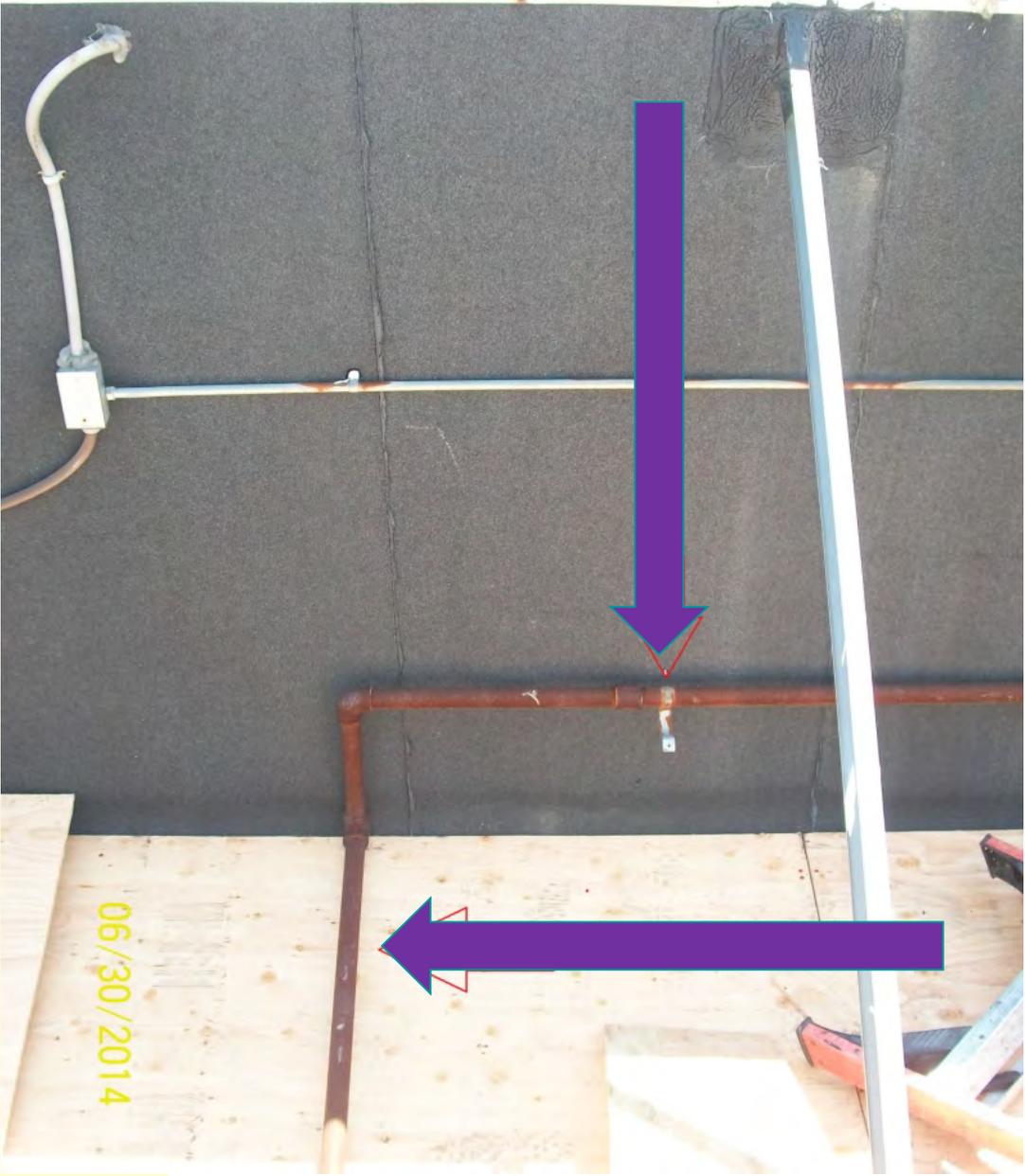


PIPELINE SAFETY REGULATIONS

PART 191

**ANNUAL REPORTS, INCIDENT REPORTS
AND
SAFETY RELATED CONDITION REPORTS
(Current through Amendment 14)**





06/30/2014



WARNING: This equipment is not to be used for any purpose other than that for which it was designed. The use of this equipment for any other purpose is strictly prohibited. The manufacturer is not responsible for any damage or injury resulting from the use of this equipment for any purpose other than that for which it was designed.

06/30/2014



06/30/2014



AIR

EXCEL

06/30/2014

...Propane

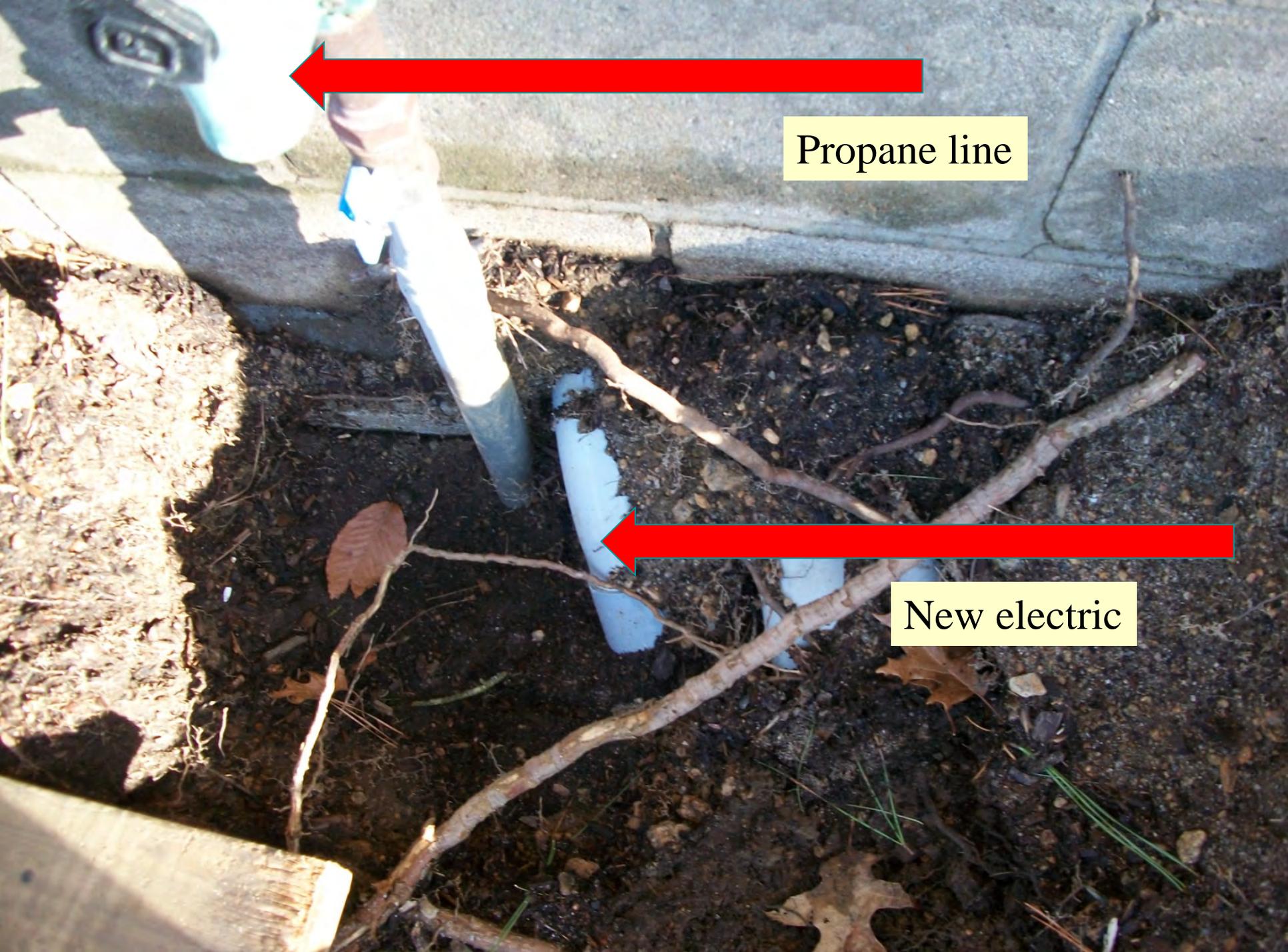




Propane line



New electric

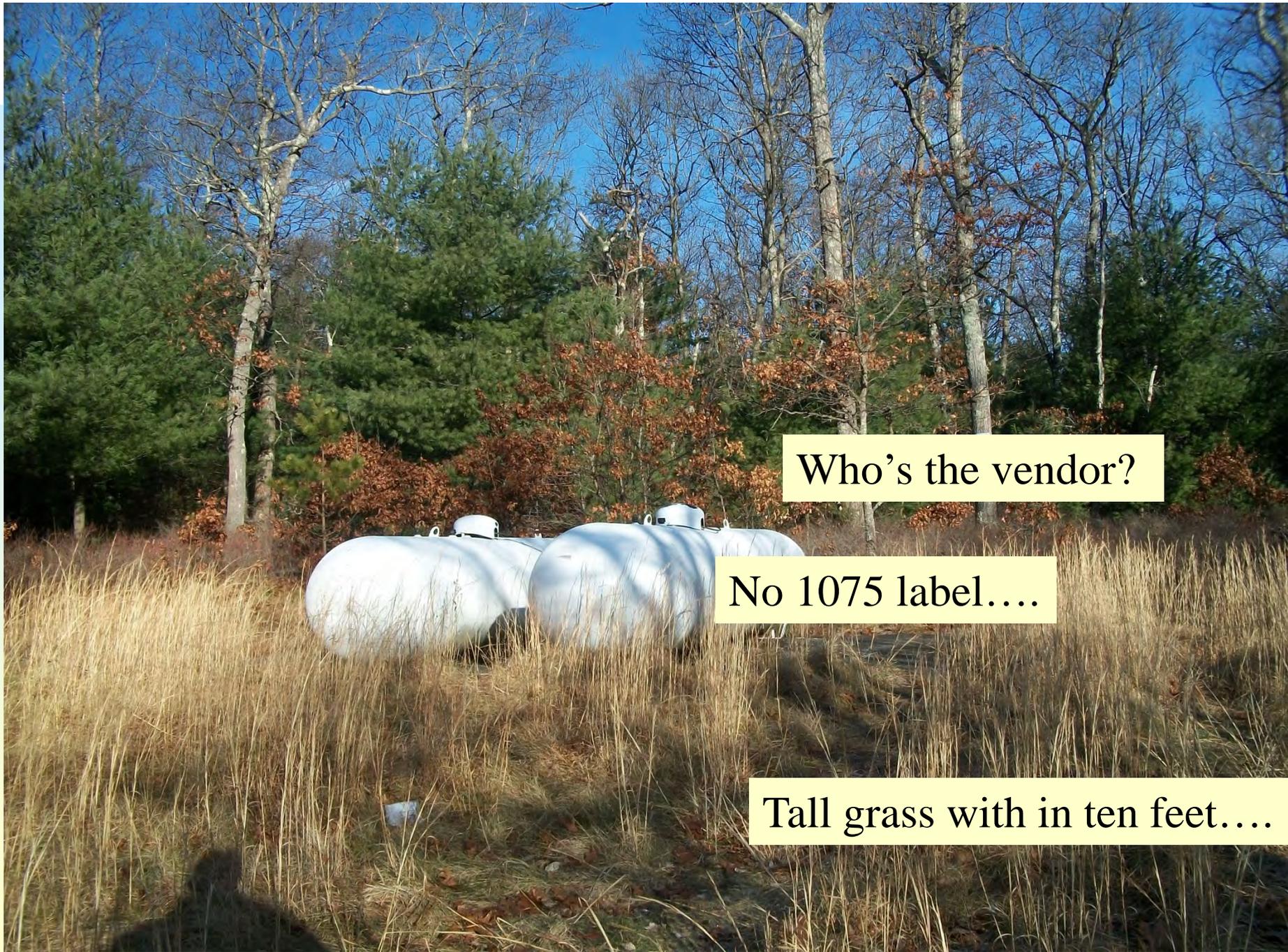




CAUTION

CAUTION

07/02/2014



Who's the vendor?

No 1075 label....

Tall grass with in ten feet....

A white diamond-shaped label is affixed to a white cylindrical object. The label features the number '1075' in a large, bold, black sans-serif font. The label's edges are slightly frayed and show some discoloration, particularly at the top and bottom points. The background of the label is white, and the number is centered within the diamond shape. The cylindrical object is white and has a slightly textured surface. The background consists of a green plastic safety fence and some dry, brown leaves and grass.

Faded and falling off....











No usage 1 year....



On and not locked....



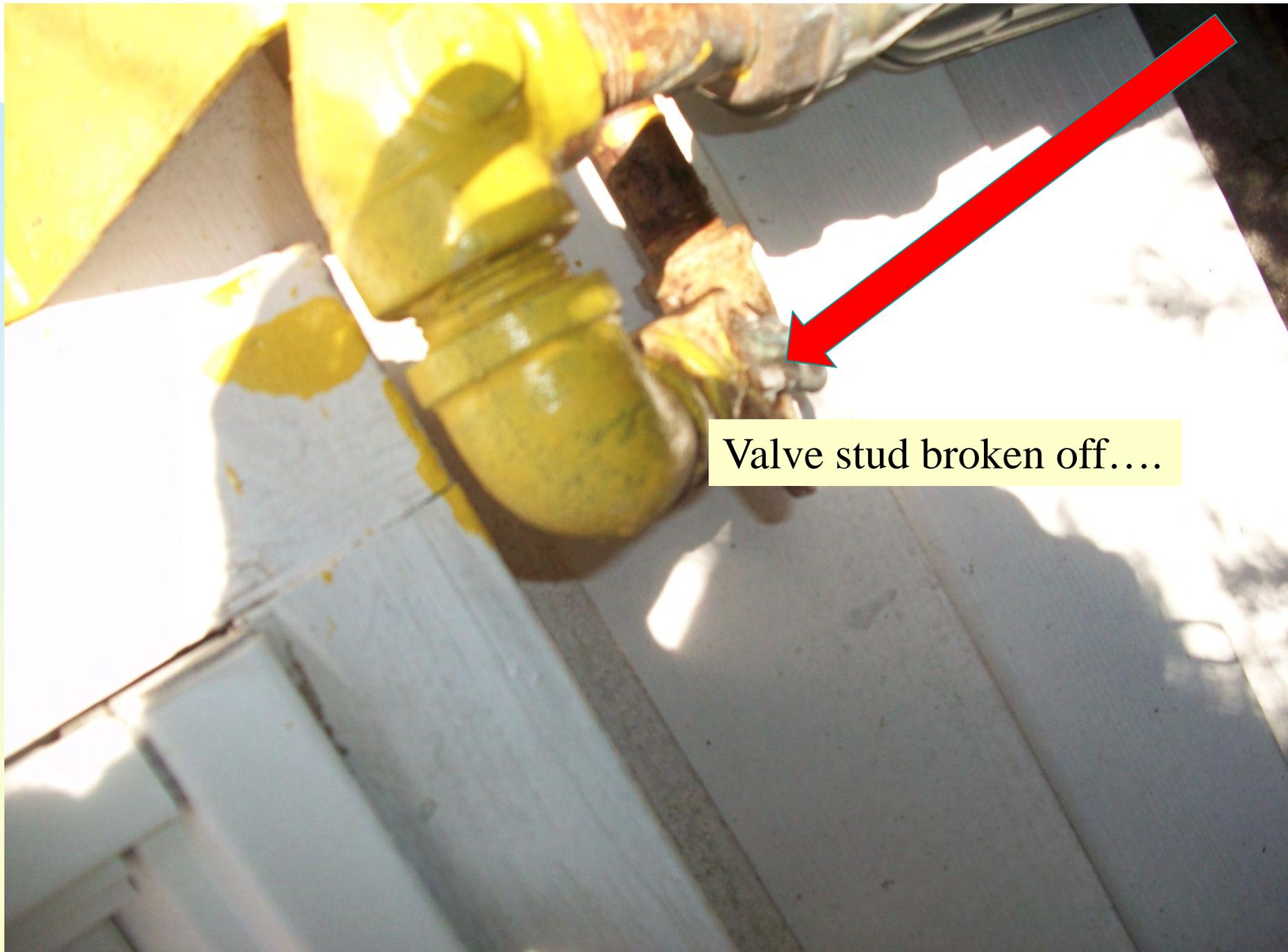


Garbage magnets, combustibles, tall weeds, leaves, no 1075 decal



Overfull or empty?





Valve stud broken off....



Trip and fall in the sidewalk?









24/08/2129



24/08/2129



24/08/2129

Public Awareness

That rotten egg stink should make you think.

Xcel Energy
xcelenergy.com

IF YOU SMELL NATURAL GAS, GET OUT AND GET AWAY.

Xcel Energy
xcelenergy.com

IF YOU SMELL NATURAL GAS, GET OUT AND GET AWAY.



All Happy Meals \$2⁹⁹



09/15/2014

The End

