

NEW HAMPSHIRE

**October 21, 2015
Annual Seminar New England
Pipeline Safety Representatives
Dover, Vermont**

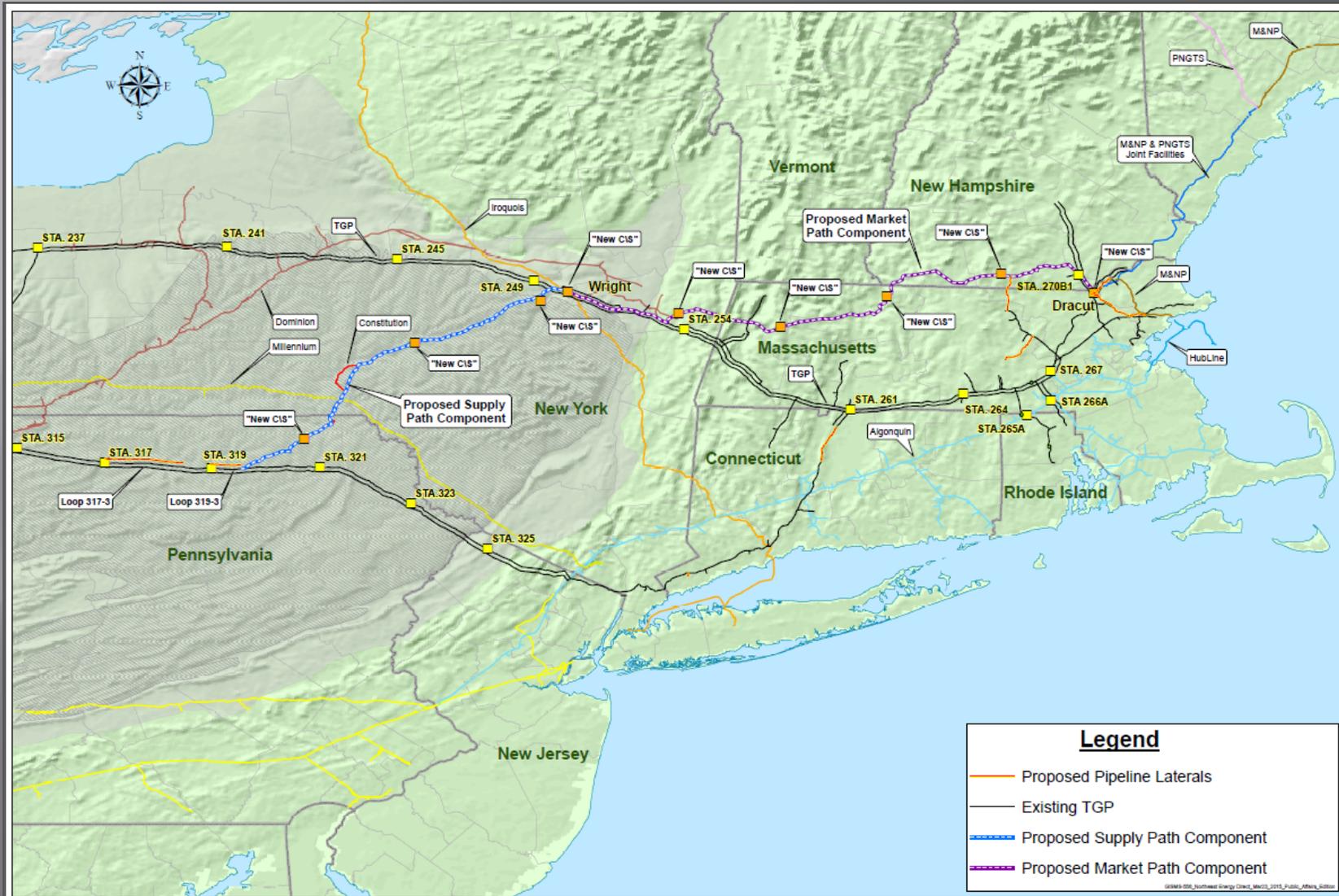


**Randy Knepper
Director of Safety, NHPUC**

NH Program Operational Overview

- ▣ **No Interstate Operator nor Haz Liquid Operator Certification with PHMSA (5 operators in NH)**
- ▣ **No gathering lines**
- ▣ **No municipal gas operators**
- ▣ Interstate Haz Liq Pipeline Ops: 1
- ▣ 75 miles Crude Oil
- ▣ Interstate Nat Gas Pipeline Ops: 4
- ▣ 230 miles
- ▣ 1 Proposed New Interstate 80 miles in NH

Proposed Kinder Morgan Interstate (NY, MA, NH) Considered controversial



NH Program Operational Overview

- ▣ 3 gas LDCs + **1 new request for new Utility Status**
- ▣ 4 Intrastate Transmission Operators (including Landfill)
- ▣ 1 LNG Plant Operator (3 plants)
- ▣ 1 LP Plant Operator (3 plants)
- ▣ 1 Master Meter Operator
- ▣ Distribution mileage:
 - approx 3090 miles
- ▣ Distribution services:
 - approx 90,000 services,
 - approx 120,000 gas customers

NH Program Operational Overview

- ▣ Propane Systems:
 - 49 LPG Operators
 - Approx 800 jurisdictional LPG systems
 - Merger activity continues within industry
- ▣ 2 inspectors (1: 3 years & 1: 10+ years)
- ▣ Well Established Underground Damage Prevention System > 30 years
 - Administered by Safety Division

NH 2014 Pipeline Asset Statistics

▣ Pipelines:

- Interstate Transmission: 232 miles
- Intrastate Transmission: 19 miles
- Distribution Mains: 1,900 miles
- Distribution Services: 90,000 services
- Equiv Dist Services: 1,200 miles

Aged Infrastructure Mains: 200 miles (2009) > 135 miles 2014 **25% Reduction**

Aged Infrastructure Services: 125 miles (2009) > 87 miles 2014 **30% Reduction**

NH Program Operational Overview

- ▣ **2015 External Focus:**
 1. Re-examining Operator fundamentals
 - Over Pressure Protection Settings,
 - Leak Surveys, Leak Records and Leak Reporting
 - Integration of Data into DIMP
 2. Continued Accelerated Replacement Leak Prone Pipe
 - 22 years left CI & BS proposed to be replaced in 10 years for 1 operator – Utility has recommended after Staff urging
 - 2 years left CI& BS for 2nd operator

NH Program Operational Overview

▣ 2015 Focus: *Same as 2014*

1. **Internal Goals:** Rewriting Inspection Forms & Processes used for Documentation
2. **Internal Goals:** Updating Website
3. **Internal Goals:** Less Lengthy Violation Resolution

Top 5 **NH** Enforcement Issues in 2014

- ▣ Failure to Follow Written Procedures
- ▣ Exceeding MAOP
- ▣ Poor Record Keeping for LP Operators
- ▣ Control Room Lite:
 - ▣ Fatigue Mitigation – scheduling more than 65 hours/week
 - ▣ 8 hour continuous sleep in missing from procedure
 - ▣ Sloppiness of signing in/out, sharing passwords
- ▣ Valve Inspections – Slipping past 12 months
- ▣ Leak Surveys – Poor Documentation
- ▣ Mechanical Fitting Failures – Lack of Understanding and required submittals

Meter Protection

*Long Cold Winter in New
Hampshire*

*Near Record Snowfall in February
2015*

Part 192.353 Customer meters and regulators: Location

- ▣ Each meter and service regulator, whether inside or outside a building, must be installed in a readily accessible location and **be protected** from corrosion **and other damage**, including, if installed outside a building, vehicular damage **that may be anticipated**.

Part 192.355 Customer meters and regulators: Protection from damage.

- ▣ No Mention of Snow and Ice Damage
- ▣ *but*
 - Advisory Bulletin ADB-11-02
 - Advisory Bulletin ADB-08-03
 - Advisory Bulletin ADB-93-01

Part 192.355 Customer meters and regulators: Protection from damage.

- ▣ 1. Notify customers and other entities of the need for caution associated with excessive accumulation and removal of snow and ice. Notice should include the need to clear snow and ice from exhaust and combustion air vents for gas appliances to:
 - (a) Prevent accumulation of carbon monoxide in buildings; or
 - (b) Prevent operational problems for the combustion equipment.
- ▣ 2. Pay attention to snow and ice related situations that may cause operational problems for pressure control and other equipment.
- ▣ 3. Monitor the accumulation of moisture in equipment and snow or ice blocking regulator or relief valve vents which could prevent regulators and relief valves from functioning properly.

Part 192.355 Customer meters and regulators: Protection from damage.

- ▣ 4. The piping on service regulator sets is susceptible to damage that could result in failure if caution is not exercised in cleaning snow from around the equipment. Where possible, use a broom instead of a shovel to clear snow off regulators, meters, associated piping, propane tanks, tubing, gauges or other propane system appurtenances.
- ▣ 5. Remind the public to contact the gas company or designated emergency response officials if there is an odor of gas present or if gas appliances are not functioning properly. Also, remind the public that they should leave their residence immediately if they detect a gas or propane odor and report the odor to their gas company, propane operator or designated emergency response officials.

2012 NH Meter Protection Language

When a customer complaint is made directly to the Operator or indirectly through the **Staff or municipal officials of an imminent safety hazard involving accumulated snow or falling snow/ice** potentially damaging a natural gas meter and related appurtenances, **Operator shall take prompt action within 24 hours to alleviate the potential threat.** No charges to the customer for ice and snow damage prevention measures taken by the Company shall be applied.

Snow Removed from Roof, Driveways, Walkways



Portsmouth, NH Roof Collapses



Hampton, NH Large Icicles



Derry, NH Meter Protection



Derry, NH Meter Protection



Seacoast Meter Protection



PUC Safety Message

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STATE OF NEW HAMPSHIRE



PUBLIC UTILITIES COMMISSION
21 S. Fruit St., Suite 10
Concord, N.H. 03301-2429

TDD Access: Relay NH
1-800-735-2964

Tel. (603) 271-2431

FAX No. 271-3878

Website:
www.puc.nh.gov

FOR IMMEDIATE RELEASE

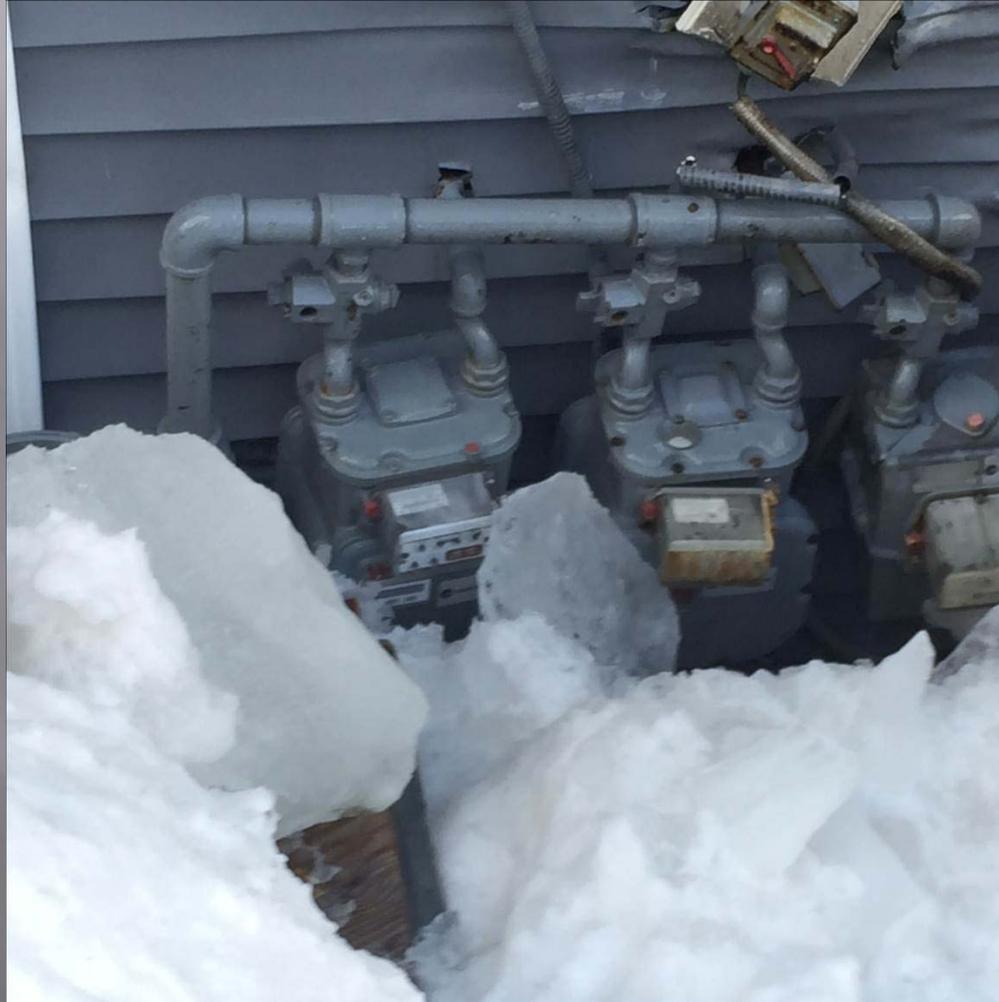
March 5, 2015

Contact: Amanda Noonan
Director, Consumer Affairs
(603) 271-2431

CONSUMER ALERT: FALLING ICE AND SNOW MAY CAUSE PROBLEMS FOR NATURAL GAS CUSTOMERS

Concord, N.H. Heavy snowfall and icy conditions in New Hampshire have increased the risk of potentially unsafe situations resulting from damage to gas service equipment such as meters and piping as well as blocked vents on customer gas appliances such as dryers, hot water heaters and furnaces. "Customers with outside gas services, particularly those located underneath an eave or overhang, should be aware that snow and ice buildup on roofs could cause damage when sliding off the roof," advises Randy Knepper, the Commission's Safety Division Director. Customers should also look at the area around their outside gas services to make sure the snow and ice are not covering the meter or blocking appliance vents. According to Knepper, there have been more than a dozen recent instances this winter in cities and towns across the state including Hampton, Dover, Somersworth, Portsmouth, Nashua, Derry, Manchester, and Concord where the weight of snow piles, falling snow, and ice have damaged gas service equipment leading into

Falling Ice, Narrow Escapes



First Responders



Rochester, NH Snow Accumulation



Rochester NH Snow Accumulation



Salem NH Snow Accumulation



Salem, NH Gas Piping Damage



Customer Attempt at Meter Protection



Roof Snow Removal



Damaged Meter



Incident Pipe Thread Leak, Resulting Fire



NH Incidents 1993-2015

- ▣ 2015 **1** (Meter Damage from Shoveled Roof)
- ▣ 2008 **1** (Snow Plow hit meter)
- ▣ 2005 **1** (Excavation Damage - Trenchless Technology)

- | | | | |
|-----------------|-----------------|-----------------|-----------------|
| ▣ 1993 0 | ▣ 1999 0 | ▣ 2006 0 | ▣ 2013 0 |
| ▣ 1994 0 | ▣ 2000 0 | ▣ 2007 0 | ▣ 2014 0 |
| ▣ 1995 0 | ▣ 2001 0 | ▣ 2009 0 | |
| ▣ 1996 0 | ▣ 2002 0 | ▣ 2010 0 | |
| ▣ 1997 0 | ▣ 2003 0 | ▣ 2011 0 | |
| ▣ 1998 0 | ▣ 2004 0 | ▣ 2012 0 | |

2014 Bare Steel Replacement Reports



NH ranks as 28th worst in % Total Main Miles for Bare Steel

Year: 2013

State	Miles Bare Steel Main	% of Total Main Miles	Service Count	% of Total Service Count
PENNSYLVANIA	7,611.19	16.3%	395,004	10.4%
OHIO	7,193.26	12.6%	151,336	4.3%
TEXAS	6,667.22	6.6%	157,704	3.2%
NEW YORK	6,612.46	13.6%	317,447	10.0%
KANSAS	3,433.28	15.5%	126,564	13.3%
CALIFORNIA	3,430.94	3.3%	17,801	0.2%
WEST VIRGINIA	2,911.75	27.2%	82,337	19.4%
OKLAHOMA	1,782.73	7.0%	54,539	4.2%
MASSACHUSETTS	1,697.82	8.0%	186,310	14.6%
NEW JERSEY	1,556.20	4.6%	269,566	11.6%
MICHIGAN	1,354.26	2.4%	49,493	1.5%
ARKANSAS	1,341.41	6.6%	22,724	3.4%
MISSOURI	1,190.22	4.4%	13,578	0.9%
FLORIDA	1,135.48	4.2%	43,033	4.9%
NEBRASKA	958.77	7.6%	5,130	0.9%
LOUISIANA	920.68	3.6%	26,857	2.4%
KENTUCKY	806.38	4.9%	23,892	2.9%
INDIANA	741.81	1.8%	3,079	0.2%
MISSISSIPPI	619.82	4.0%	2,855	0.5%
ALABAMA	591.20	2.0%	151,512	14.4%
VIRGINIA	574.80	2.7%	15,000	1.2%
ARIZONA	548.72	2.3%	11,487	0.9%
MINNESOTA	438.40	1.5%	5,482	0.4%
RHODE ISLAND	319.84	10.1%	41,821	21.7%
ILLINOIS	315.87	0.5%	26,597	0.7%
MARYLAND	308.48	2.1%	91,270	9.0%
COLORADO	229.86	0.7%	19,101	1.2%
CONNECTICUT	173.72	2.2%	55,468	12.9%
IOWA	172.49	1.0%	8,318	0.9%
HAWAII	109.10	17.9%	7,272	20.9%
NEW MEXICO	98.44	0.7%	10,477	1.7%
TENNESSEE	81.27	0.2%	2,904	0.2%
GEORGIA	81.20	0.2%	11,708	0.6%
WYOMING	41.08	0.8%	3,078	1.7%
SOUTH DAKOTA	32.30	0.7%	2,157	1.1%
NEW HAMPSHIRE	29.88	1.6%	6,704	7.5%
DISTRICT OF COLUMBIA	27.72	2.3%	6,968	3.6%
WASHINGTON	23.30	0.1%	2,094	0.2%
DELAWARE	22.59	0.8%	957	0.6%
MONTANA	10.03	0.1%	599	0.2%
OREGON	10.01	0.1%	69	0.0%
SOUTH CAROLINA	10.00	0.0%	410	0.1%
NORTH DAKOTA	7.81	0.2%	68	0.0%
UTAH	6.56	0.0%	8	0.0%
MAINE	1.67	0.2%	185	0.7%
ALASKA	0.49	0.0%	0	0.0%



NH ranks as 8th worst in % Total Main Miles for Cast Iron

Nations Worst

- DC 1
- RI 2
- CT 3
- MA 4
- NJ 5
- MD 6
- NY 7
- PA 8
- ME 10

Year: 2013

State	Miles Main	% of Total Main Miles	Service Count	% of Total Service Count
NEW JERSEY	4,881	14.3%	0	0.0%
NEW YORK	4,254	8.9%	7,208	0.2%
MASSACHUSETTS	3,634	17.1%	1,583	0.1%
PENNSYLVANIA	3,114	6.6%	60	0.0%
MICHIGAN	3,011	5.3%	17	0.0%
ILLINOIS	1,645	2.7%	74	0.0%
CONNECTICUT	1,426	18.2%	37	0.0%
MARYLAND	1,378	9.4%	0	0.0%
ALABAMA	1,200	4.1%	139	0.0%
MISSOURI	1,071	4.0%	0	0.0%
TEXAS	892	0.9%	0	0.0%
RHODE ISLAND	831	26.1%	185	0.1%
OHIO	570	1.0%	53	0.0%
NEBRASKA	457	3.6%	0	0.0%
DISTRICT OF COLUMBIA	418	34.9%	0	0.0%
LOUISIANA	334	1.3%	346	0.0%
VIRGINIA	333	1.6%	78	0.0%
INDIANA	275	0.7%	0	0.0%
FLORIDA	211	0.8%	0	0.0%
NEW HAMPSHIRE	125	6.6%	39	0.0%
TENNESSEE	118	0.3%	0	0.0%
ARKANSAS	103	0.5%	0	0.0%
DELAWARE	86	2.9%	0	0.0%
KENTUCKY	86	0.5%	1,233	0.2%
KANSAS	86	0.4%	0	0.0%
MAINE	51	5.5%	47	0.2%
MISSISSIPPI	45	0.3%	1	0.0%
MINNESOTA	30	0.1%	0	0.0%
CALIFORNIA	29	0.0%	0	0.0%
COLORADO	14	0.0%	0	0.0%
WEST VIRGINIA	14	0.1%	30	0.0%
SOUTH DAKOTA	9	0.2%	0	0.0%
IOWA	7	0.0%	7	0.0%
GEORGIA	5	0.0%	0	0.0%
WASHINGTON	3	0.0%	0	0.0%



5

7

4

8

3

6

2

1

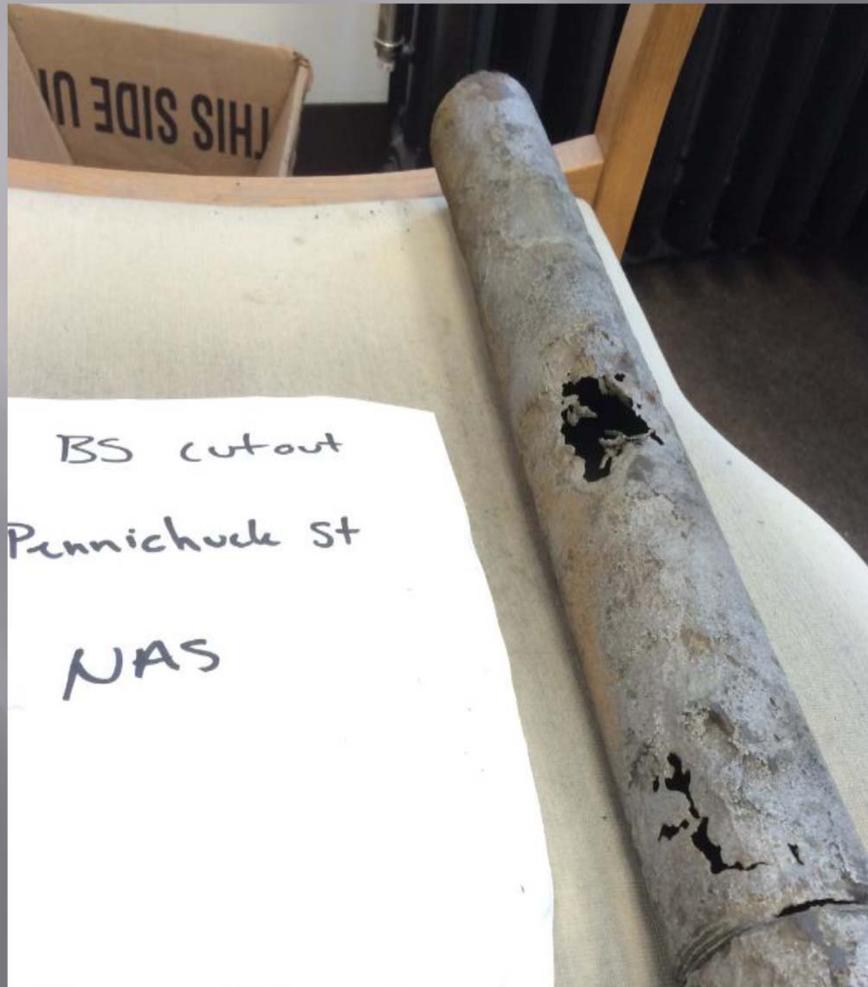
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Accelerated Replacement

- ▣ 2014 New Hampshire Cast Iron Bare Steel Replacement Program
- ▣ Eliminated Another 6 miles CI
- ▣ Eliminated Another 8 miles BS

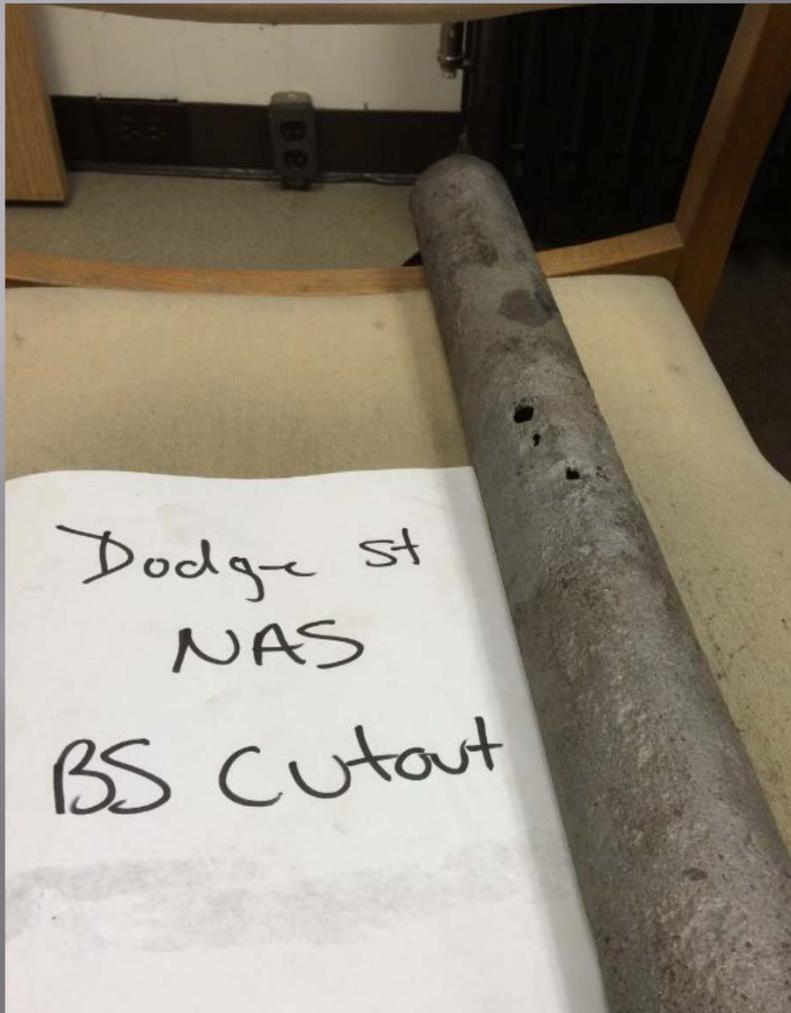
Accelerated Recovery or Violation?

2" Bare Steel, 1913, Orig .133", Low Pressure, Wall Loss 100%



Accelerated Recovery or Violation?

2" Bare Steel, 1956 Orig .139, Low Pressure, 100% Wall Loss



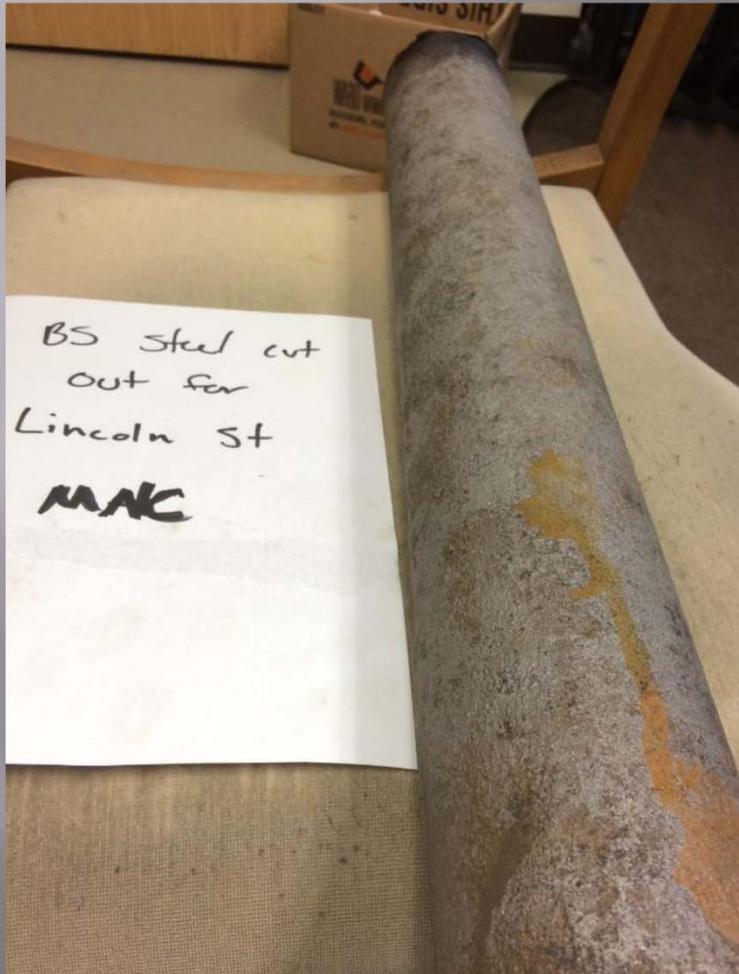
1" Bare Steel, Unknown Date, Orig Wall .133" 60 PSIG, 100% Wall Loss



2" Bare Steel Original .160" 1956 60 PSIG 100% Wall Loss



3" Bare Steel Original Thickness
.234" Metal loss 1954 60 psig



2013 Bare Steel Replacement Reports



2013 Bare Steel Replacement Reports

- ▣ 3-25 PRATT ST & ZELLWOOD ST - WO# 807276 - 2 inch bare steel
- ▣ (1894/1914), 60 psig - 0.188" wall.
- ▣ □ A soil sample was taken and analyzed. The pH was measured to be 7, or neutral. Testing for chlorides was negative. Testing for microbiological acid producing (APB) and sulfate reducing bacteria (SRB) were performed. The APB testing produced a reading of 1,000 bacteria colonies per ML.

2013 Bare Steel Replacement Reports

- ▣ The testing for SRB produced a reading of 100 bacteria colonies per ML. The soil was observed to be a dark brown color, odorless, and containing small stones.
- ▣ The pipe sample was observed to be in very poor condition. One location with 100% wall loss and other locations with deep pitting observed on the exposed steel. The deepest pit depth was measured at 0.120" or 64% wall loss. The samples are available for continued visible review. Exposure of this main should result in an immediate replacement/repair work order.

2014/2015 **NH** Major Construction Activity

- ▣ Construction Activity – Unutil is aggressively installing and expanding mains to unserved areas
- ▣ Construction Activity – Liberty is pursuing a CNG Strategy to reach unserved areas by installing a CNG Station
- ▣ Liberty in 2015 has initiated expansion of mains programs
- ▣ Many Other CNG Stations being installed within New Hampshire

NH Special Waivers Requested / Granted in 2014

New Hampshire would rarely grant if ever a special waiver for pipeline safety issues. It would be extremely unusual.

Program Metrics

- ▣ Track and Trend Leaks, Leak Repairs
- ▣ Track and Trend Emergency Responses
- ▣ Track and Trend Underground Damage Prevention Stats
- ▣ Track and Trend Accelerated Replacement Program
- ▣ Track Odorization Levels
- ▣ Track and Trend O&M Work Hours
- ▣ Track Evacuations

What's New?

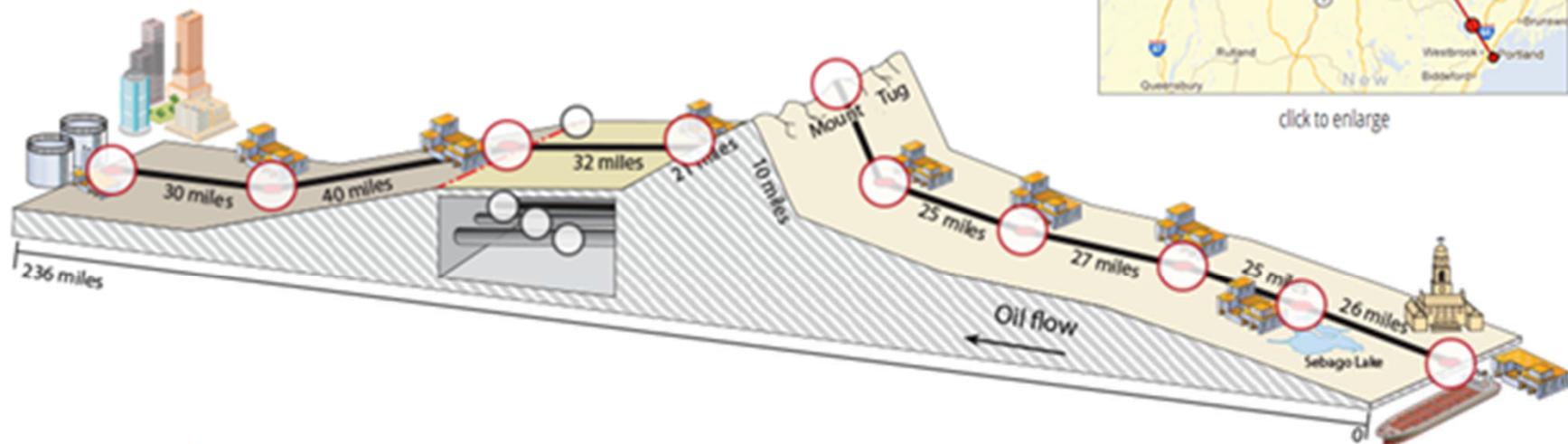
- Regional nexus of Keystone

The Portland/Montreal Pipe Line System

Started in 1941 as an emergency project to move crude oil during World War II, the Portland-Montreal Pipe Line system pumps oil 236 miles from Portland Harbor to refineries in Canada. Five pump stations lift the oil from sea level to an elevation of 1,960 feet in Vermont; three more send it downhill to Montreal. A gallon of oil will complete the underground ride in roughly two days.



click to enlarge



Source: Telegram Research & Portland Pipe Line Co.

What's New?



What's New?

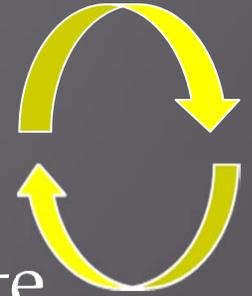
- ▣ 3 New Bills were enacted centered on the single Oil pipeline in New Hampshire owned by Portland Pipeline



What's New?

- ▣ HB 1376 forms a study committee to look at the transportation of the oil through the state
- ▣ House Bill 325 gives the state Department of Environmental Services the authority to impose requirements relating to oil spill preparedness and response. **CFR PART 194 w/ more enhancements**
- ▣ **HB 1224 directs the PUC to petition the federal government to seek certification and perform interstate pipeline inspections**

What's New?



- ❑ Requested Interstate Inspection Status Sept
- ❑ PHMSA response Dec 2014 “temp” yes
“perm” no
- ❑ Have report to State Legislature
- ❑ Researching Commission Orders for Public Utility Status
- ❑ State Legislature will inform Federal Delegation

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21 S. Fruit Street, Suite 10
Concord, N.H. 03301-2429

September 15, 2014

TDD Access: Relay NH
1-800-735-2664

Tel. (603) 271-2431

FAX (603) 271-3878

Website:
www.puc.nh.gov

Zachary Barrett
Director of State Programs
Office of Pipeline Safety
Pipeline and Hazardous Materials Safety Administration
U.S. Department of Transportation
3700 South McArthur Boulevard
Suite B
Oklahoma City, OK 73169

RE: New Hampshire CY 2015 State Application for Interstate Agent Status:

Dear Mr. Barrett:

This letter is intended to inform you of a recently enacted New Hampshire State Law regarding pipeline safety. New Hampshire statute RSA 363:22 was amended by House Bill 1224, effective January 1, 2015, and requires the New Hampshire Public Utilities Commission (through its Safety Division) to apply annually for interstate agent status to inspect pipeline safety of interstate natural gas pipelines and interstate hazardous liquid pipelines located within New Hampshire. It also includes provisions to report back to the New Hampshire legislature the results of such application.

Interstate Systems Involved:

Natural Gas:

New Hampshire interstate gas pipeline systems contain transmission pipelines owned and operated by 4 interstate natural gas pipeline operators:

- 1) Granite State Gas Transmission System (Operator ID #6580) owned by Unitil Corporation headquartered in Hampton, New Hampshire.
- 2) Tennessee Gas Pipeline (Operator ID #19160) owned by Kinder Morgan of Houston, Texas.
- 3) Portland Natural Gas Transmission System (Operator ID #31145) owned by TransCanada with local headquarters in Portsmouth, New Hampshire.
- 4) Maritimes and Northeast Pipeline, LLC (Operator ID #31335) owned by Spectra Energy Transmission, LLC Corp of Houston, Texas.

In total, this comprises 232 miles of interstate transmission natural gas pipeline through 31 communities within New Hampshire.

What's New?

- ▣ June 2014
- ▣ Maximum Fine for New Hampshire Pipeline Safety Violations now matches the Federal Level of \$200,000 up to \$2,000,000
- ▣ Previous Level was \$100,000 up to \$1,000,000.
- ▣ Applies to Willful and Non Willful Violations

New Hampshire Damage Prevention Update

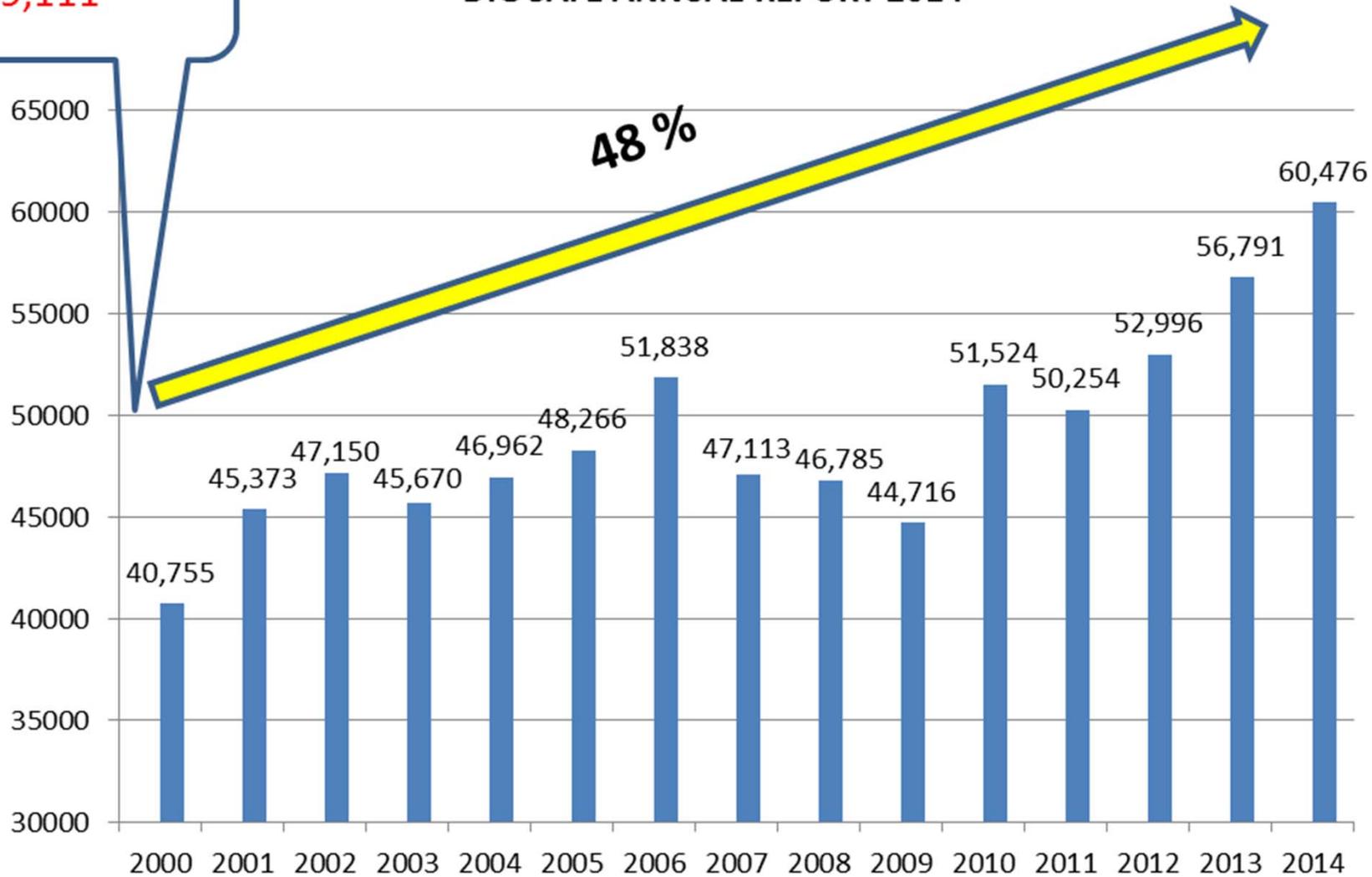
NH Damage Prevention Update

- ▣ NO Changes to One-Call law in 2014:

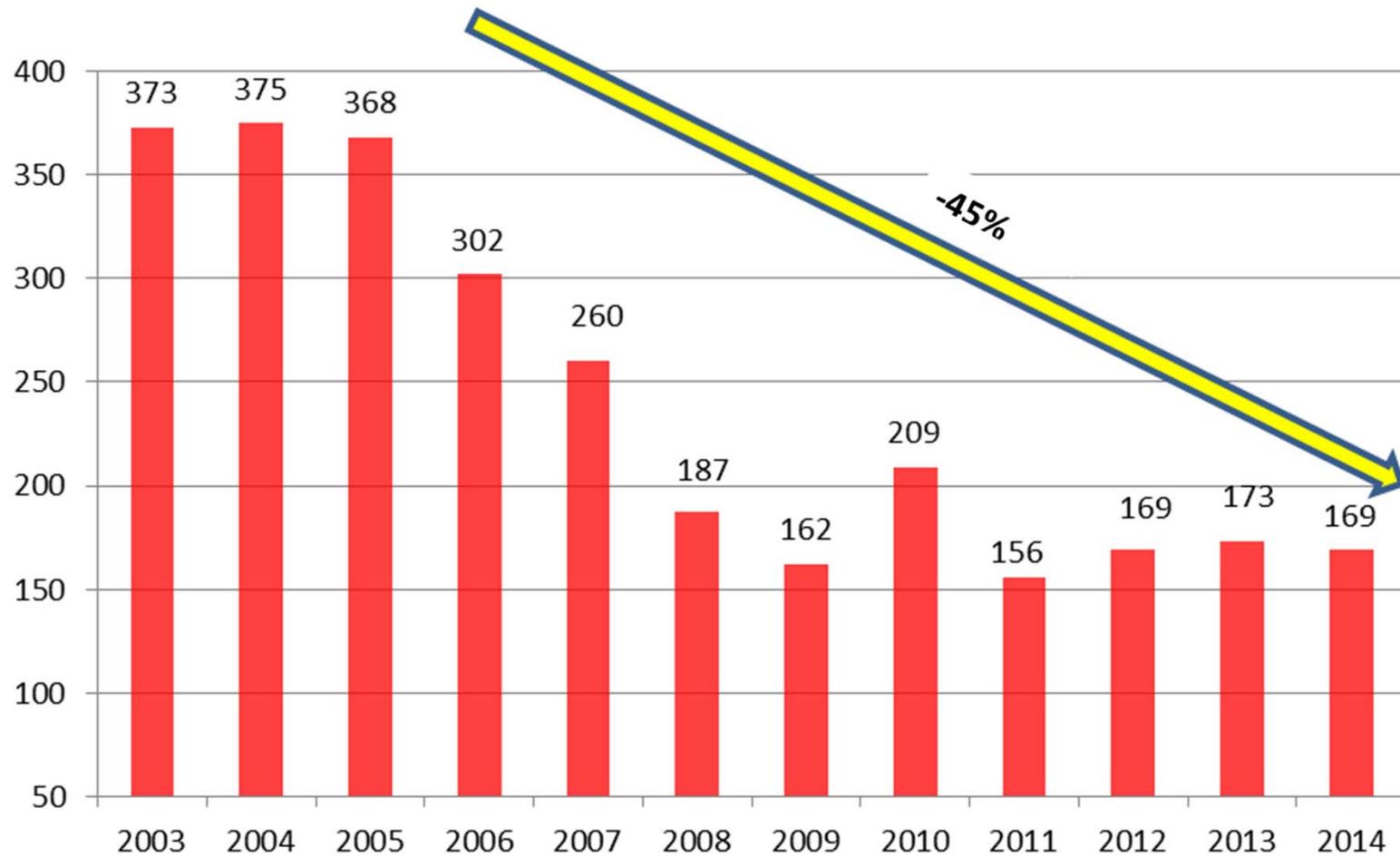
Year	Excavator	Operator	Total
	Gas Damages Per 1000	Gas Damages Per 1000	Gas Damages Per 1000
2010	1.19	0.52	1.71
2011	1.17	0.41	1.59
2012	1.29	0.34	1.64
2013	0.71	0.40	1.10
2014	0.81	0.45	1.26

CALLS TO DIG SAFE SYSTEMS, INC. FOR NH LOCATES
2000 - 2014
DIG SAFE ANNUAL REPORT 2014

15 year
average
49,111



**REPORTED DIG SAFE DAMAGES or PROCEDURAL VIOLATIONS
2002-2014
to THE NEW HAMPSHIRE PUC SAFETY DIVISION**



2014 One Call Progress Report - Final

Underground Damage Enforcement Proceedings involving **gas facilities** in **New Hampshire** that were **closed by Underground Damage Prevention Specialist (William Ruoff)** in CY 2014

Year of Violation/ Incident	# of Gas Enforcement Actions	Type of Enforcement	at Fault	Gas	Collected Fines and Equivalent Training Value	
2011	0	Fine (Civil Penalty)	Excavator	0	\$0	
		Fine (Civil Penalty)	Operator	0	\$0	
SubTotal	73	Fine (Civil Penalty)	Excavator	31	\$15,500	
		Fine (Civil Penalty)	Operator	42	\$22,000	
2014	20	Equivalent Training (Civil Penalty)	Excavator	20	\$10,000	
2013	10	Equivalent Training (Civil Penalty)	Excavator	10	\$5,000	
2012	4	Equivalent Training (Civil Penalty)	Excavator	4	\$2,000	
2011	0	Equivalent Training (Civil Penalty)	Excavator	0	\$0	
SubTotal	34	Equivalent Training (Civil Penalty)	Excavator	34	\$17,000	
2014	5	Dismissal	Dismissed	Either	1	NA
			Homeowner	Excavator	1	NA
			Reasonable Care	Excavator	0	NA
			No Violation	Either	3	NA
			Non-Jurisdictional	Either	0	NA
			Unknown	Excavator	0	NA
2013	12	Dismissal	Dismissed	Either	4	NA
			Homeowner	Excavator	0	NA
			Reasonable Care	Excavator	8	NA
			No Violation	Either	0	NA
			Non-Jurisdictional	Either	0	NA
			Unknown	Excavator	0	NA
2012	12	Dismissal	Dismissed	Either	7	NA
			Homeowner	Excavator	0	NA
			Reasonable Care	Excavator	3	NA
			No Violation	Either	1	NA
			Non-Jurisdictional	Either	0	NA
			Unknown	Excavator	1	NA
2011	0	Dismissal	Dismissed	Either	0	NA
			Homeowner	Excavator	0	NA
			Reasonable Care	Excavator	0	NA
			No Violation	Either	0	NA
			Non-Jurisdictional	Either	0	NA
			Unknown	Excavator	0	NA
2014	66	Total Gas Enforcement Actions		66	\$30,500	
2013	42	Total Gas Enforcement Actions		42	\$16,000	
2012	28	Total Gas Enforcement Actions		28	\$8,000	
2011	0	Total Gas Enforcement Actions		0	\$0	
Total	136	Grand Total		136	\$54,500	
				Actual Fines Collected	\$37,500	

- **136 Gas Investigations**
- **\$37,500 in Civil Penalties**

2014 One Call Progress Report - Final

Underground Damage Enforcement Proceedings involving **non-gas facilities** in **New Hampshire** that were **closed by Underground Damage Prevention Specialist (William Ruoff) in CY 2014**

Year of Violation/ Incident	Non-Gas Enforcement Actions	Type of Enforcement	at Fault	Electric	Phone	Cable	Water	Other	Total	Collected Fines and Equivalent Training Value	
2014	28	Fine (Civil Penalty)	Excavator	6	2	1	2	0	11	\$5,500	
		Fine (Civil Penalty)	Operator	13	2	2	0	0	17	\$8,500	
2013	18	Fine (Civil Penalty)	Excavator	4	3	2	0	0	9	\$4,500	
		Fine (Civil Penalty)	Operator	3	2	4	0	0	9	\$4,500	
2012	2	Fine (Civil Penalty)	Excavator	1	0	0	0	0	1	\$500	
		Fine (Civil Penalty)	Operator	1	0	0	0	0	1	\$500	
2011	1	Fine (Civil Penalty)	Excavator	1	0	0	0	0	1	\$500	
		Fine (Civil Penalty)	Operator	0	0	0	0	0	0	\$0	
SubTotal	49	Fine (Civil Penalty)	Excavator	12	5	3	2	0	22	\$11,000	
		Fine (Civil Penalty)	Operator	17	4	6	0	0	27	\$13,500	
2014	30	Equiv. Training (Civ. Penalty)	Excavator	22	5	3	0	0	30	\$15,000	
2013	16	Equiv. Training (Civ. Penalty)	Excavator	11	4	0	0	1	16	\$8,000	
2012	4	Equiv. Training (Civ. Penalty)	Excavator	3	1	0	0	0	4	\$2,000	
2011	1	Equiv. Training (Civ. Penalty)	Excavator	1	0	0	0	0	1	\$500	
SubTotal	51	Equiv. Training (Civ. Penalty)	Excavator	37	10	3	0	1	51	\$25,500	
2014	16	Dismissal	Dismissed	Either	3	2	0	0	0	5	NA
			Homeowner	Excavator	6	0	0	0	1	7	NA
			Reasonable Care	Excavator	1	0	0	0	0	1	NA
			No Violation	Either	1	0	1	0	1	3	NA
			Non-Jurisdictional	Either	0	0	0	0	0	0	NA
Unknown	Excavator	0	0	0	0	0	0	NA			
2013	19	Dismissal	Dismissed	Either	4	2	1	1	0	8	NA
			Homeowner	Excavator	1	0	0	0	0	1	NA
			Reasonable Care	Excavator	2	3	0	0	0	5	NA
			No Violation	Either	1	0	0	1	0	2	NA
			Non-Jurisdictional	Either	0	0	0	0	0	0	NA
Unknown	Excavator	3	0	0	0	0	3	NA			
2012	8	Dismissal	Dismissed	Either	2	2	1	0	0	5	NA
			Homeowner	Excavator	0	0	0	0	0	0	NA
			Reasonable Care	Excavator	0	2	0	0	0	2	NA
			No Violation	Either	0	0	0	0	0	0	NA
			Non-Jurisdictional	Either	0	0	0	0	0	0	NA
Unknown	Excavator	0	1	0	0	0	1	NA			
2011	1	Dismissal	Dismissed	Either	0	1	0	0	0	1	NA
			Homeowner	Excavator	0	0	0	0	0	0	NA
			Reasonable Care	Excavator	0	0	0	0	0	0	NA
			No Violation	Either	0	0	0	0	0	0	NA
			Non-Jurisdictional	Either	0	0	0	0	0	0	NA
Unknown	Excavator	0	0	0	0	0	0	NA			
2014	74	Total Non-Gas Enforcement Actions		52	11	7	2	2	74	\$29,000	
2013	53	Total Non-Gas Enforcement Actions		29	14	7	2	1	53	\$17,000	
2012	14	Total Non-Gas Enforcement Actions		7	6	1	0	0	14	\$3,000	
2011	3	Total Non-Gas Enforcement Actions		2	1	0	0	0	3	\$1,000	
Total	144	Grand Total		90	32	15	4	3	144	\$50,000	
										Actual Fines Collected	\$24,500

144 Non Gas Investigations

\$50,000 Civil Penalties

New Hampshire Excavator Manual

- Last published January 2013
- Amendments on Puc website through Aug 2013
- <http://www.puc.nh.gov/Safety/educationandtraining.htm>
- Reorganized Sections
- Added Franchise Territory Maps
- Added LPG and Water Systems for Town listings
- Updated Utility Names resulting from Mergers/Acquisitions

NEW HAMPSHIRE

EXCAVATOR MANUAL



Remember to Contact



**before you
Blast, Demo, Drill or
Excavate**

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It's the Law

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PHONE:
811
888-DIG-SAFE (888-344-7233)
Monday thru Friday, 6:00 am to 6:00 pm

AFTER 6:00 PM:
EMERGENCY CALLS ONLY

New Hampshire Excavator Manual Projected Updates

- ▣ Publish Jan 2016, updates of Dec 2015
- ▣ Will add language for new mobile application
- ▣ Will add links to national resource materials
- ▣ Will update Operator Names/Towns
 - NH Gas
 - Multiple LPG changes
 - Small water systems changes
 - Territory realignments

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New Hampshire Excavator Manual

UTILITIES BY CITY/TOWN

CITY/TOWN	TELEPHONE	CABLE	ELECTRIC	WATER	SEWER	GAS	LPG
CHICHESTER	<ul style="list-style-type: none"> FAIRPOINT TDS 	<ul style="list-style-type: none"> COMCAST 	<ul style="list-style-type: none"> PSNH UNITIL 				<ul style="list-style-type: none"> EASTERN PROPANE
CLAREMONT	<ul style="list-style-type: none"> FAIRPOINT 	<ul style="list-style-type: none"> COMCAST C/P 	<ul style="list-style-type: none"> NHEC 	<ul style="list-style-type: none"> MUNICIPAL 	<ul style="list-style-type: none"> MUNICIPAL 		<ul style="list-style-type: none"> AMERIGAS PROPANE EASTERN PROPANE SUBURBAN PROPANE YOUNG'S PROPANE
CLARKSVILLE	<ul style="list-style-type: none"> FAIRPOINT 		<ul style="list-style-type: none"> NHEC PSNH 				
COLEBROOK	<ul style="list-style-type: none"> DIXVILLE FAIRPOINT 	<ul style="list-style-type: none"> WHITE MTN 	<ul style="list-style-type: none"> NHEC PSNH 	<ul style="list-style-type: none"> MUNICIPAL 	<ul style="list-style-type: none"> MUNICIPAL 		<ul style="list-style-type: none"> RYMES
COLUMBIA	<ul style="list-style-type: none"> FAIRPOINT 	<ul style="list-style-type: none"> WHITE MTN 	<ul style="list-style-type: none"> NHEC PSNH 				
CONCORD	<ul style="list-style-type: none"> FAIRPOINT 	<ul style="list-style-type: none"> COMCAST C/P 	<ul style="list-style-type: none"> PSNH UNITIL 	<ul style="list-style-type: none"> CONCORD 	<ul style="list-style-type: none"> CONCORD 	<ul style="list-style-type: none"> LIBERTY 	<ul style="list-style-type: none"> RYMES
CONWAY	<ul style="list-style-type: none"> FAIRPOINT 	<ul style="list-style-type: none"> TIME WARNER C/P 	<ul style="list-style-type: none"> PSNH NHEC 	<ul style="list-style-type: none"> FOREST EDGE FRYEBURG LAKES REGION WATER CO. MUNICIPAL NORTH CONWAY WATER PRECINCT PENNICHUCK EAST 	<ul style="list-style-type: none"> MUNICIPAL 		<ul style="list-style-type: none"> AMERIGAS PROPANE EASTERN PROPANE RYMES

NH Puc 800 Administrative Rules

- sunset in Nov 2016, will initiate rulemaking by Dec 2015
- Expect minor refinements:
- Possible Areas of Review:
 - Locator Training Requirements?
 - Insertions of Services?
 - Contractor/SubContractor notification language?
 - Emergency markouts – time?
 - abandonments?
 - update “operator” for telecommunications (RSA 362:7 modified in 2013)?

NH Damage Prevention Items

- Began performing random field checks based on quantity tickets per town per county.
- estimating 2 days per month
- Evaluating whether number of violations found are increasing, staying steady or decreasing
- Implemented mobile tablets and RSS Feeder Application of Dig Safe System Inc

National Damage Prevention Items

- NH PUC in November completed a PHMSA Characterization Tool based on federal 9 elements (every 2 years) – most items addressed many years ago - 72 criteria items

NH Pipeline Safety State Program Metrics



Site Pages

- ▶ About Pipelines
- ▶ Regulatory Oversight
- ▶ Safety Programs
- ▶ Public Outreach

State Pipeline Profiles:

Choose One...

Print

New Hampshire State Program Metrics

As part of its annual grant evaluation process, PHMSA performs thorough evaluations of each state pipeline safety regulatory program. To support this evaluation PHMSA and the National Association of Pipeline Safety Representatives (NAPSR) have developed a set of performance metrics. These metrics look at state program performance in six areas:

- Damage Prevention Program
- Inspection Activity
- Inspector Qualification
- Leak Management
- Enforcement
- Incident Investigation

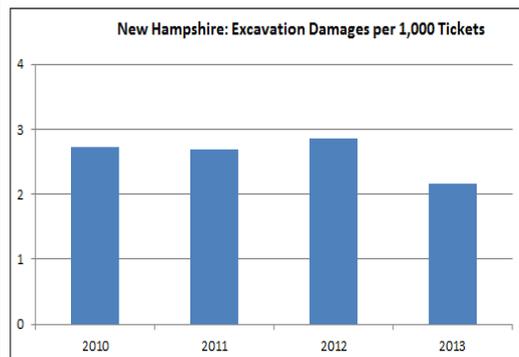
These metrics for New Hampshire are provided below.⁽¹⁾ The New Hampshire Public Utilities Commission provides oversight of intrastate gas pipelines in New Hampshire through [certification](#) by PHMSA.

Damage Prevention Program

Excavation damage is the leading cause of natural gas distribution pipeline incidents, and a leading cause of other pipeline incidents, nationwide. A critical step in preventing excavation damage is for the excavator to notify pipeline operators of intent to excavate at a specific location. This is normally done by the excavator calling a one-call center. The one-call center then issues a locate ticket to inform pipeline operators and other underground utility operators with facilities located near the planned excavation activity. The pipeline operators can then locate and mark the location of their pipelines and otherwise communicate with the excavator as necessary to prevent damage to the pipelines.

The number of excavation damage occurrences per 1,000 locate tickets is an established benchmark within the damage prevention industry and an important indicator of damage prevention program performance. However, note that variations among state laws regarding locate ticket size and scope, along with the length of time a locate ticket is valid, will limit any state to state comparison of this metric.

The excavation damages metric illustrated below includes data for natural gas distribution system operators only. It does not include data from gas transmission or hazardous liquid pipeline operators as there is insufficient data available for those types of pipelines.



NH Pipeline Safety State Program Metrics



Pipeline Safety Stakeholder Communications
Pipeline Safety Connects Us All

Pipeline & Hazardous Materials
Safety Administration

Home General Public Emergency Officials Local Officials Excavators Property Developer/Owner Pipeline Safety Advocates State Regulators Federal Agencies Industry Contact Us

Site Pages

- ▶ About Pipelines
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State Pipeline

Profiles:

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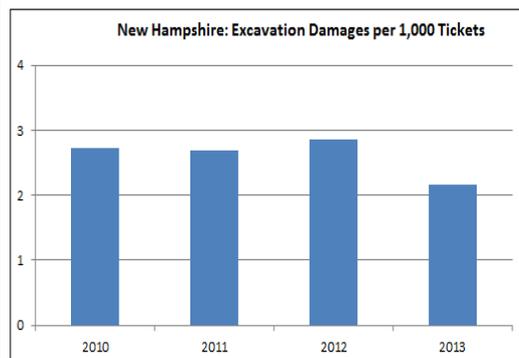
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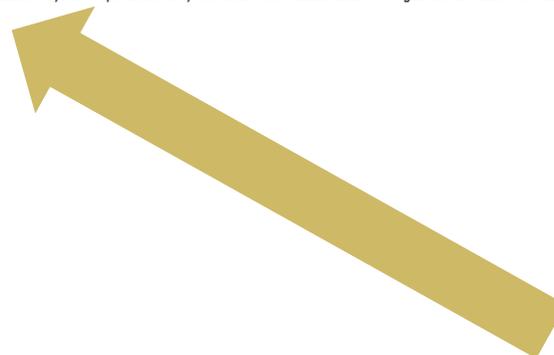
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**Ignores
40% of
Data**

**READ THE
FINE
PRINT**



NH Pipeline Safety INSPECTIONS PLANS – PLANS - PLANS

- ▣ Physical Security Plans
- ▣ Public Awareness Plans
- ▣ Operation and Maintenance Plans
- ▣ Emergency Plans
- ▣ Distribution Integrity Management Plans

NH Pipeline Safety INSPECTIONS PLANS – PLANS - PLANS

- ▣ Operator Qualification Plans
- ▣ Control Room Plans
- ▣ Integrity Management Plans
- ▣ Quality Assurance Plans
- ▣ Damage Prevention Plans
- ▣ Construction Plans
- ▣ Drug and Alcohol Plans

And there is more coming.....

THANK YOU FOR YOUR EFFORTS TOWARDS PIPELINE SAFETY

- Zero Incidents is Achievable