

2019 MITA Annual Conference January 24, 2019

Agenda

- Authority
- Damage Prevention Statistics
- Incidents
- Complaints
- Investigation Process
- Evidence and Documentation

Authority

State

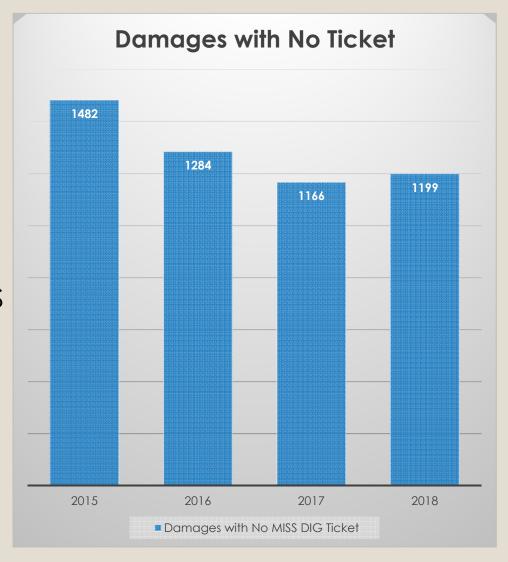
- Public Act 174 of 2013
- Michigan Underground Facility Owners and Operators (Rule 460.11 et seq.)
- Public Act 165 of 1969
- Michigan Gas Safety Standards (Rules 460.20101 et seq.)

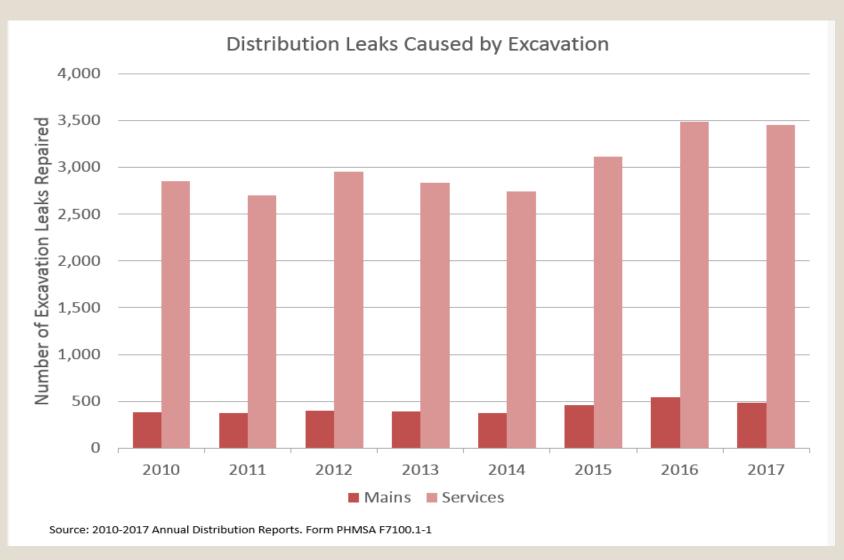
Federal

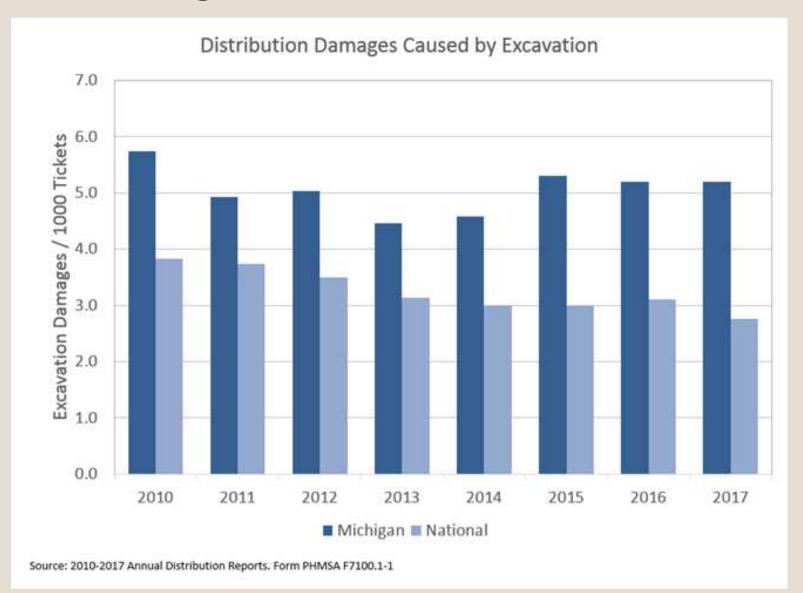
- Protecting our Infrastructure of Pipelines Enhancing Safety (PIPES) Act of 2016
- 49 CFR Part 196 (Rules)
- No Exemptions

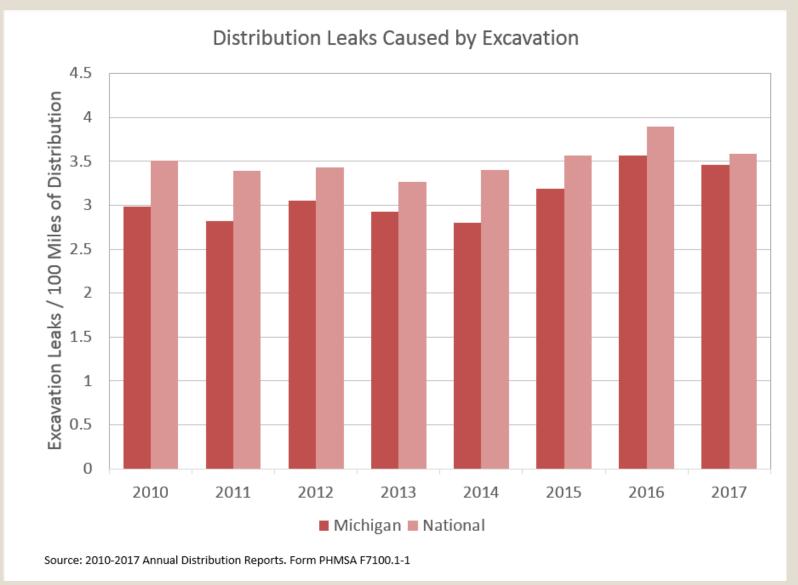
(Third Quarter Comparison)

- Damages
 - · 2015 3670
 - · 2016 3695
 - · 2017 3545
 - \circ 2018 3731
- Damages with No MISS DIG Ticket
 - · 2015 1482
 - · 2016 1284
 - · 2017 1166
 - · 2018 1199

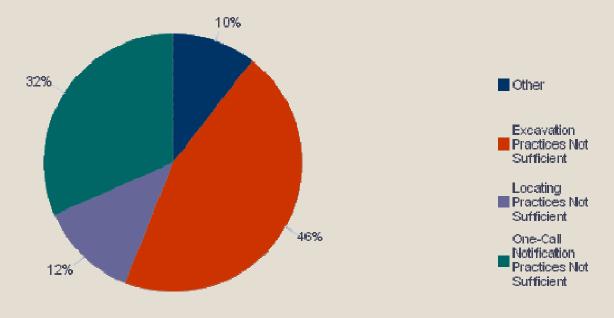








(Gas Distribution Pipeline Excavation Damages by Root Cause 2015 – Present)



12,810

Calendar Year	Number of Excavation Tickets	Number of Excavation Damages	One-Call Notification Practices Not Sufficient	Not	Excavation Practices Not Sufficient		One-Call Notification Practices Not Sufficient	Not	Excavation Practices Not Sufficient	Other
2017	822,578	4,271	1,238	636	2,108	289	29%	15%	49%	7%
2016	827,516	4,272	1,361	466	1,999	446	32%	11%	47%	10%
2015	796,641	4,267	1,451	481	1,727	608	34%	11%	40%	14%

Incidents (Milling)

Date of	Injuries	Fatalities	Property	Cause code	Gas Loss
Incident			Damage		(Mcf)
6/18/15	0	0	\$304,155	Excavation	103
				Damage	

Summary

A milling contractor removing asphalt pavement struck a 1-1/8-inch plastic service line. The service line had approximately 12-inches of cover at the damage location. The milling machine ignited the escaping gas.

(Milling)

Violations

- Excavator: Warning Call Before You Dig
- Facility Operator:Recommendation
 - Mark Facility as Shallow
 - Educate Contractor



Incidents (Directional Drilling)

Date of	Injuries	Fatalities	Property	Cause code	Gas Loss
Incident			Damage		(Mcf)
1/19/17	0	0	\$129,366	Excavation	9834
				Damage	

Summary

A contractor installing telecommunications cable by directional drilling struck and punctured a 12-inch cast-iron main. Facility markings were not adequately provided in manner that permits the excavator to perform soft excavation at the location of the damaged pipe. Facility staker posted "on-going coordination" with no records.

(Directional Drilling)

Violations

- Facility Operator:
 - Failed to Provide Adequate Markings
 - No Record of "On-Going Coordination"
 - ∘ Fines \$10,000



(Road Construction – Removing Facilities)

Date of	Injuries	Fatalities	Property	Cause code	Gas Loss
Incident			Damage		(Mcf)
9/21/17	0	0	\$105,918	Excavation	332
				Damage	

Summary

A contractor saw-cutting an active 12-inch pipeline, believing it to be abandoned. Facility markings were not adequately provided in manner that permits the excavator to perform soft excavation at the location of the damaged pipe.

(Road Construction – Removing Facilities)

Violation

- Facility
 Operator –
 Failed to
 Provide
 Adequate
 Markings
- ∘ Fine \$5000



(Road Construction – Gutter)

Date of	Injuries	Fatalities	Property	Cause code	Gas Loss
Incident			Damage		(Mcf)
5/29/18	0	0	\$110,254	Excavation Damage	30,500
				Daniage	

Summary

A contractor installing roadside edge drain struck a one-inch high pressure natural gas steel service line. Contractor did not provide its own dig notice to the notification system. While investigating the incident, it was revealed that the facility owner/operator had also failed to mark the gas service line for another dig notice for this project.

(Road Construction - Gutter)

Violations

- Excavator -
 - Failed toProvide a DigNotice
 - ∘ Fine \$500
- Facility Operator
 - Failed to mark the gas service line.
 - ∘ Fine \$5000



(Directional Drill – River)

Date of	Injuries	Fatalities	Property	Cause code	Gas Loss
Incident			Damage		(Mcf)
11/29/18	0	0	\$143,000	Excavation	
				Damage	

Summary

A contractor installing electric conduit under river to serve island damaged four-inch steel main serving island.

*Property damage is E-response only, pipeline replacement is pending.

(Directional Drill - River)

Violations

- Excavator Investigation Pending
- FacilityOperator –InvestigationPending



Complaints

- Large Water Project
 - 12 Gas Service Line Damages
 - Excavator Cited for 6 Violations @ \$500 for each for a Total Penalty of \$3000 (Failure to Expose with Soft Excavation)
 - Facility Operator Cited for 12 Violations @ \$2000 for each for a Total Penalty of \$24,000 (Failure to Mark and Records)
- Drainage Field Installation
 - Excavator Made Several Calls for Additional Assistance due to No Markings
 - Facility operator Cited for 3 Violations @ \$5000 for each for a Total Penalty of \$15,000 (Failure to Mark)

Complaints

- Multiple Excavation Projects
 - Curb and Sidewalk Installations/Repair
 - Excavator Cited for 6 Violations @ \$500 for each for a total fine of \$3000 (Failure to Provide Dig Notice)
- Fence Post Installation
 - Post was Within 2 feet of a 20-inch High Pressure Pipeline
 - Discovered while Patrolling the Pipeline Right-of-way
 - Excavator Cited for a Violation with Penalty \$500 (for 1st Offense)

- Complaints
- Incidents
- Onsite Damage Investigations
 - Reported Incidents per Public Act 165 of 1969
 - Staff Initiated
- Real Time Damage Notifications
 - No MISS DIG Ticket
 - Improper Positive Response
 - Short Notices/Non-Emergency Tickets
- Data Analysis and Investigations
 - Areas with High Occurrences of Damages
 - Late or No Positive Response
 - No MISS DIG Ticket

- Evidence Typically Reviewed:
 - Complaint Form or Incident Report
 - MISS DIG Ticket(s)
 - Follow-up Information Requests
 - Facility Operator's Maps/Records/Sketches
 - Photographs (before and after)
 - Reports/Field Notes Documenting the Damage
 - Any Additional Evidence Provided by the Parties Involved

- Damage Prevention Complaint Form
 MPSC / Consumer Information / Inquiries and Complaints
 https://w2.lara.state.mi.us/MPSC_Forms/complaint
- All Excavation Damage Incidents Reported per R 460.20503
 Since April 1, 2014, are Investigated for Violations of Act 174

(Compliance Letters)

- Aware of a Damage
- Probable Violation Exists
 - What was Violated
 - Evidence of the Violation
- Recommended Penalty
- Methods of Response
 - Informal Meeting
 - Contest the Violation
 - Not Contest and Pay Penalty
- Timing
 - 30 days Penalty Response
 - 60 days Written Response

- Pre-damage
 - MISS DIG Ticket Information
 - Communications with Excavator/Facility Owner/Locator
 - Photos/Videos
- Post-Damage
 - Communications with Excavator/Facility Owner/Locator
 - Photos/Videos
 - Maps, Drawings, and Sketches of Site with Measurements
 - Damage Report, Employee Statements, and Third Party Statements
 - On-going Communication Documentation and/or Records
- MISS DIG System Document Saving/Sharing Option
 - Communications Between Parties
 - Maps, Plans, Photos, Reports, etc.

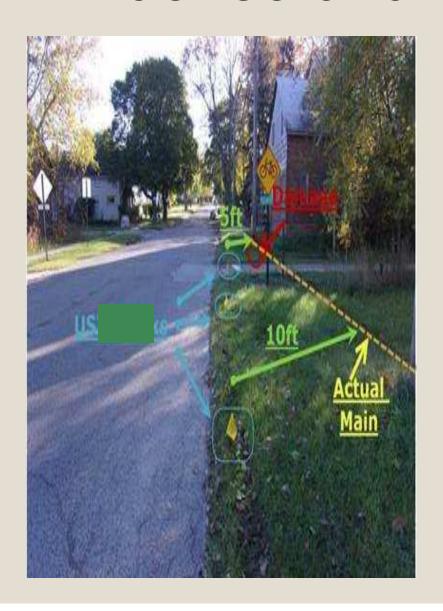


















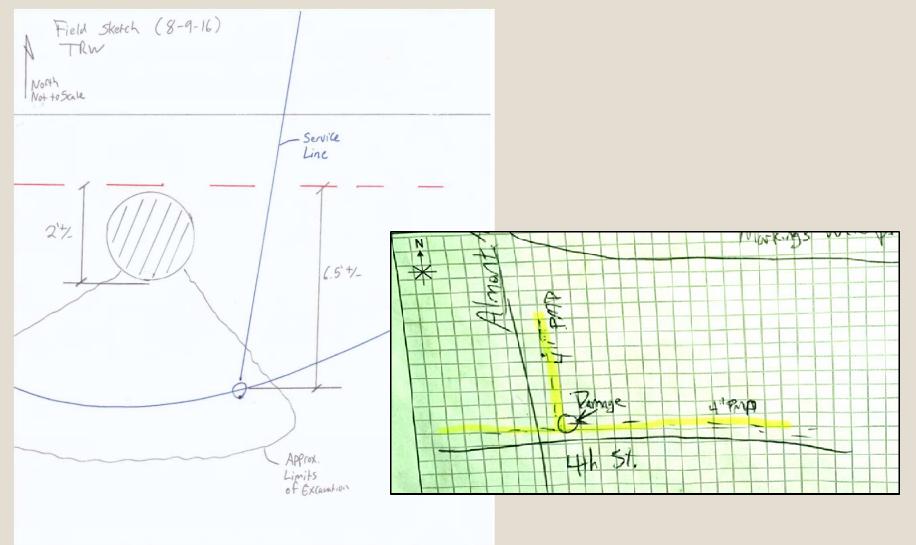


Date/Time of Damage:	/ Da	te/Time Notified:	/
Address:		City:	
Investigation Start Time:	AM / PM	Stop Time:	AM / PM
Facility Owner:	Owner n	otified by:	
MISS DIG Ticket #:	Di	g Start Date/Time:	/
Type of Facility: Transmission	Distribution	Main ☐ Service ☐	
Date of Install: Pip	e Material:	Diamete	er:
Depth of facility: Ope	erating Pressure:	psig MAOP:	psig
Number of Customer Outages:	N/A □ N	umber of Injuries:	N/A 🗆
Estimated Cost of Damage and Repa	nir: \$	(Property damage to Facility Ov	wer and to Others, Repair Cost)
Were Marks Present?: Yes □ No □	Were Marks Acc	urate?: Yes 🗆 No 🗆 Di	stance off:
		t least 36" wide but not more than the	facility width plus 18" on either s
Were Operator Maps of Facilities Ac			
Were Marks Destroyed Prior to Exca			
Was Soft Excavation Performed?: You		nce from Marks: zone is 48" on either side of facility m	arks)
If excavation is parallel to facility cau			
establish precise facility location?: I	N/A 🗆 Yes 🗆 No 🗆	Interval Length:	
Was there: Evidence of a facility wit	th no marks present?	: Yes 🗆 No 🗆	
Lack of positive respons	e?: Yes 🗆 No 🗆		
Positive response indica	ting a facility presen	t but no marks?: Yes 🗆 N	lo 🗆
Potential Cause of Damage:			
Photo Log			
1.		7	
2		8.	
3.		9	
4		10	
5		11.	

Pipeline Failure Investigation Report

	Area from best possible view. Pictures from the four	points of	the compass. Failed Component, Operator Action,
	es in Area, s Markings, etc.		
Photo No.	Description	Photo No.	Description
1	IMG_0292 – Photo of the entire site, from the boring machine looking East towards the damage location.	16	IMG_0307 – Immediately adjacent to the excavation looking East.
2	IMG_0293 – Photograph of the markings DTE vs. Freedom at the driveway to the East of the damaged location. Looking Southeasterly.	17	$IMG_0308-Same$ as $IMG_0307,$ only a little further back to better show the excavation.
3	IMG_0294 - Same details as IMG_0293, but looking East.	18	IMG_0309 - Northeast of the damaged location looking Southwest.
4	IMG_0295 - Same as IMG_0294, but with a clipboard for s scale reference.	19	IMG_0310 – East of the damaged location showing t whole site.
5	IMG_0296 – Same details as IMG_0293, to show the contractors markings.	20	
6	IMG_0297 – West Edge of driveway to the East of damaged location, clipboard for reference scale. Looking East.	21	
7	IMG_0298 – Standing in the ditch looking East. One "spotting" hole in the foreground, another spotting hole existed before being filled in in the dirt patch to the East. Damaged location is in the distance "taped" off.	22	
8	IMG_0299 – Northwest of the damaged location looking Southeast. Dirt patch in the foreground is where the gas manifested.	23	
9	IMG_0300 - South of the damaged location looking North.	24	
10	IMG_0301 – West of the damaged location looking East.	25	
11	IMG_0302 - Markings to the North of the damaged location, looking South. Clipborad for reference.	26	
12	IMG_0303 - Same as IMG_0302, but with the end of the scraper to mark the faint yellow mark placed by the boring crew.	27	
13	IMG_0304 - Same as IMG_0303, but looking more into the distance.	28	
14	IMG_0305 – Same as IMG_0305, only closer to the excavation and looking more downward. The scraper still identifying a yellow mark from the boring crew.	29	
15	IMG_0306 – East of the damaged location looking West.	30	

Page 1 of 1 Form -11 Pipeline Failure Investigation Report (Rev. 03/17/2011 through Amdt. 192-116 & 195-95)



Public Service Commission

Gas Operations
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