

National Capital Heavy Construction Association

Pipe Line Damages Review

January 30th, 2025



Putting Public Safety First



Technical Standards & Safety Authority

Who is TSSA?

- Private, not for profit Company with a focus on public safety
- Prior to May 1997, part of the Ontario Government
- Delegated authority to administer Technical Standards & Safety Act from Ministry of Consumer and Business Services
- Enforce the Acts, regulations, standards and codes

Fuels Safety Program



Our Mission

- To make Ontario safe and promote public safety, a valued advocate & recognized in public safety
- Over 4200 plus line strikes per year
- Investigate all gas line damages as mandated
- Objective to reduce gas line damages
- 3 tools used – education, prevention, legal / prosecution



Fuels Safety Program

- Requirement to obtain locates is The Law in Ontario.



What are the results if simple instructions are followed.



Fuels



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8" ST HP gas main
punctured with tooth of
bucket





Approximately 15,000,000 square cubic meters of hydro carbons lost!

Inspectors are Provincial Offences Officers

- Orders (section 21 TSS Act)
- Prosecution -\$50K per for individual, \$1M for corporations and/or 1 Yr imprisonment
- (section 37 TSS Act)
- Pipe Line Damage \$ 1066.00
- Pipe Line Damage \$ 253.50 Hr. (Rush)
- Ad Hoc No Locates\$ 628.00



Investigation Criteria

- Gas line damage investigation
- Objective to reduce gas line damages
- Determine Direct Cause
- Contributing Cause
- Root cause

Who is Responsible ?

- Supervisors
- Foremen
- Operators
- Laborers
- Cities & Municipality's
- Sub-Contractors

- You are all responsible!!

Ontario Regulation 210/01

10. No person shall interfere with or damage any pipeline without authority to do so.

Interpretation:

You cannot damage a pipeline.

Duty of contractors and employers

- Issue: Municipalities are vicariously liable for their employees. What about their contractors?
- “Every **contractor** and **employer** shall take *reasonable precautions* to ensure that they and their **agents** and **employees** comply with [the TSS Act, regulations and codes]”
 - *TSS Act*, s. 41

Ontario Regulation 210/01

4. (1) Every person who operates, installs, removes, repairs, alters or services equipment or works shall instruct their employees to comply with the Act and this Regulation.

4. (2) Every person who employs a person to carry out any activity referred to in subsection (1) shall take every precaution that is reasonable in the circumstances to ensure that the employee complies with the Act and this Regulation.

Due Diligence

- Actions that are **reasonable** in the circumstances and that would be expected from a **reasonable** person
- Means taking responsibility for your actions, making your **own** decisions and being able to explain **logically** why you took the actions resulting from that decision.



TSSA Advisory

- Acceptable Format for Pipeline Locates
- Ontario Regulation 210/01 (Oil and Gas Pipeline systems) requires that
- “**9.** (1) No person shall dig, bore, trench, grade, excavate or break ground with mechanical equipment or explosives without first ascertaining from the licence holder the location of any pipeline that may be interfered with.”
- This requirement is normally satisfied by contacting Ontario One Call and obtaining a locate for the pipeline.

TSSA Advisory - Acceptable formats

NEW

- Electronic Locate Report
- Device should be operable
- Minimum 7" (diagonal) screen/tablet
- Viewing screen should be free of defect



TSSA Advisory - Acceptable formats

- Each page of the locate report should be legible and viewable in its entirety

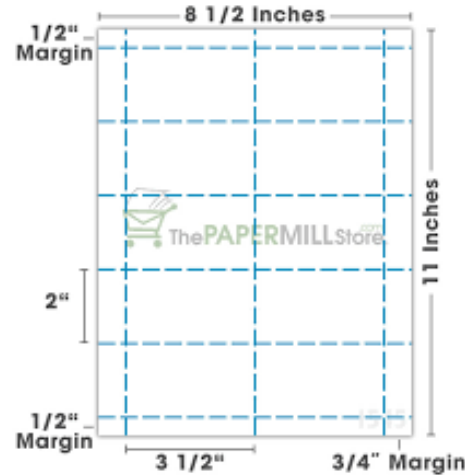
The image shows a detailed utility locate report form. At the top, it is titled 'WORK TELEPHONE / GAS / POWER PLANT LOCATE REPORT' with form numbers 'Form 001 (03/01)' and 'Form 002 (03/01)'. The form includes sections for 'GENERAL INFORMATION', 'JOB INFORMATION', 'UTILITY INFORMATION', and 'LOCATE INFORMATION'. It contains various checkboxes and input fields for recording details such as 'Type of Work', 'Depth of Work', 'Utility Name', and 'Locate Method'. A large grid area is used for recording the results of the locate, with columns for different utilities and rows for specific locations. The bottom of the form has a section for 'APPROVALS' with fields for 'Checked by' and 'Checked on', and a note stating 'A COPY OF THIS LOCATE REPORT MUST BE ON SITE AND IN THE HANDS OF THE WORKING OPERATOR (OR WORK OPERATOR)'.

- All pages of the locate report should be accessible at all times



TSSA Advisory – Paper locates

- Minimum size 8 ½ “X 11”
- Locate report should be legible and free of defect



- All pages of the locate report should be accessible at all times.



TSSA Advisory

- A copy of the primary and auxiliary locate sheet shall be on site and in the possession of the machine operator during all work operations.
- Should the sketch and the marking not coincide, a new Locate must be obtained.
- Never disturb ground outside located area.

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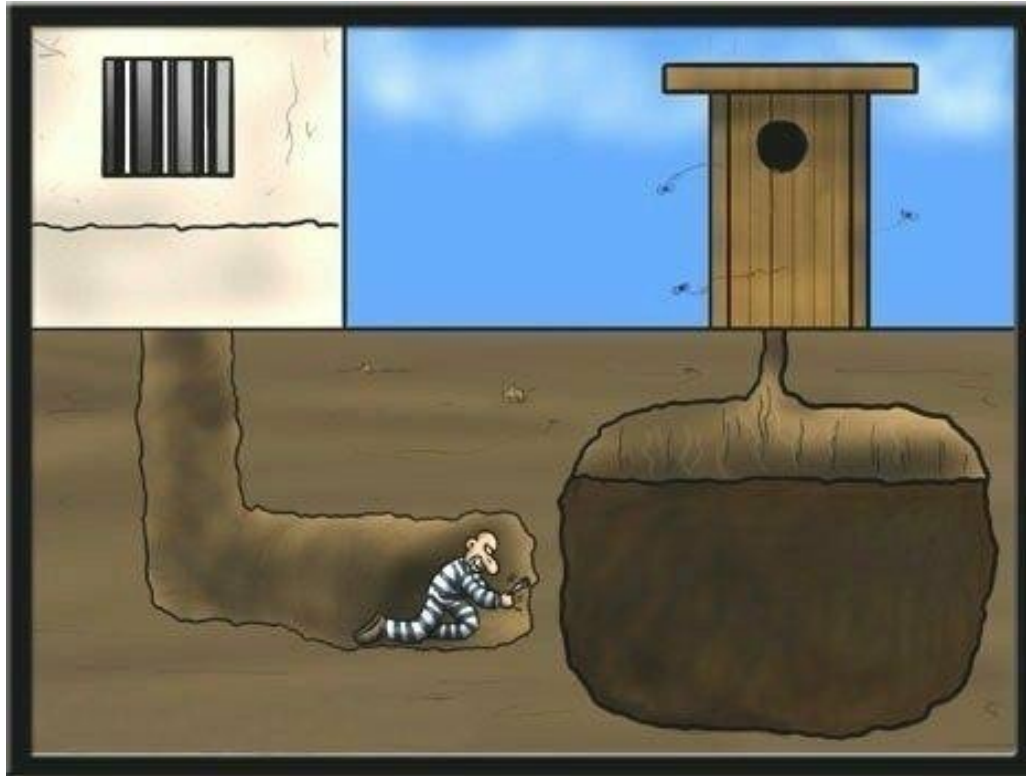


Problems & Non-Compliances?

Unfortunately, nothing will change unless we take ownership of our actions, change our attitude and commit to Public Safety.



Plan the Dig Carefully



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For more information and
email updates, visit our web
site:

www.tssa.org



Questions?

