



Canada Energy
Regulator

Régie de l'énergie
du Canada

Canada

Using data to build and improve DP Programs





Presentation Outline

1. OPR section 47.2
2. What is a “Program”?
3. How does it all link together?
4. Key sections of the OPR
5. How can data lead to program improvement



Damage Prevention in the OPR

47.2 A company shall develop, implement and maintain a damage prevention program that **anticipates, prevents, manages** and **mitigates** damage to its pipeline and meets the requirements set out in section 16 of the *Canadian Energy Regulator Pipeline Damage Prevention Regulations — Obligations of Pipeline Companies*.

[SOR/2016-134, s. 1](#)

[SOR/2020-50, s. 26](#)

[Previous Version](#)



What is a Program?

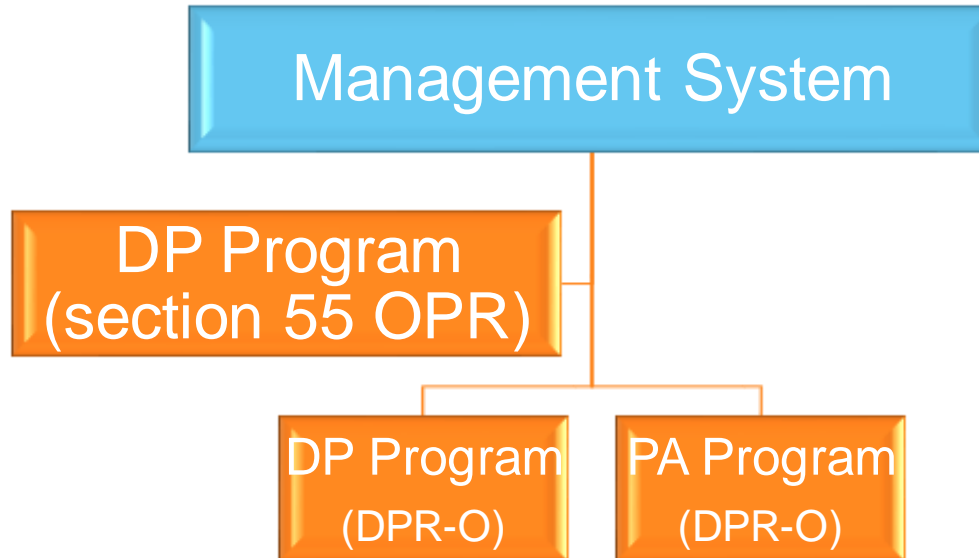
program

A documented set of processes and procedures designed to regularly accomplish a result. A program outlines how plans, processes and procedures are linked, and how each one contributes toward the result. Program planning and evaluation are conducted regularly to check that the program is achieving intended results.

OPR Guidance Notes



How it fits together



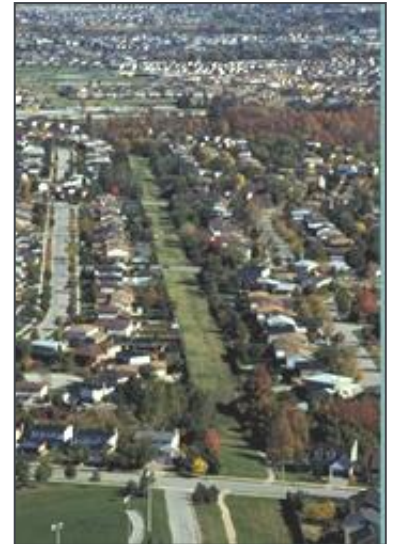


Identify hazards and potential hazards

6.5 (1) A company shall, as part of its management system and the programs referred to in section 55,

c) establish and implement a process for identifying and analyzing all hazards and potential hazards;

(d) establish and maintain an inventory of the identified hazards and potential hazards;





From identifying hazards to implementing controls

(e) establish and implement a process for evaluating the risks associated with the identified hazards and potential hazards, including the risks related to normal and abnormal operating conditions;

(f) establish and implement a process for developing and implementing controls to prevent, manage and mitigate the identified hazards, potential hazards and risks and for communicating those controls to anyone who is exposed to the risks;



Report incidents and near misses



r) establish and implement a process for the internal reporting of hazards, potential hazards, incidents and near-misses and for taking corrective and preventive actions, including the steps to manage imminent hazards;



Analyze trends in hazards, incidents & near misses

(s) establish and maintain a data management system for monitoring and analyzing the trends in hazards, incidents and near-misses;





Inspecting and Monitoring

(u) establish and implement a process for inspecting and monitoring the company's activities and facilities to evaluate the adequacy and effectiveness of the programs referred to in section 55 and for taking corrective and preventive actions if deficiencies are identified;





How a DP Program can learn from data

- Contravention reports
- Damage to pipe & second party incidents
- Patrol reports
- Number, type & location of requests for Consent
- Number of Locates
- Public awareness engagement Activities
- Operations & Maintenance Activities
- Third Party complaints & requests
- Class location surveys

Inputs

- Goals & targets
- Report/Trending
 - Stakeholder feedback surveys
- Gather and share input from other programs

Analyze & Evaluate

- Targeted engagement
- Process updates
- Damage prevention/ public awareness program updates
- Measures?

Improve



Conclusion

- DP programs need to find ways to anticipate, prevent, manage and mitigate hazards from human activity
- A Management System learns through inputs from various processes
- Looking at the data that your existing processes can inform your DP and PA Program
- Data can be used to ask questions, not just support conclusions
- We are looking forward to hearing how data analysis worked for your programs!



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