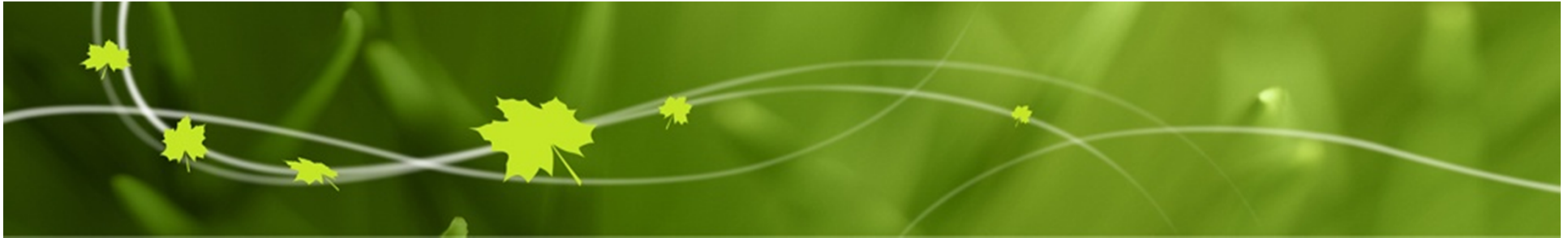




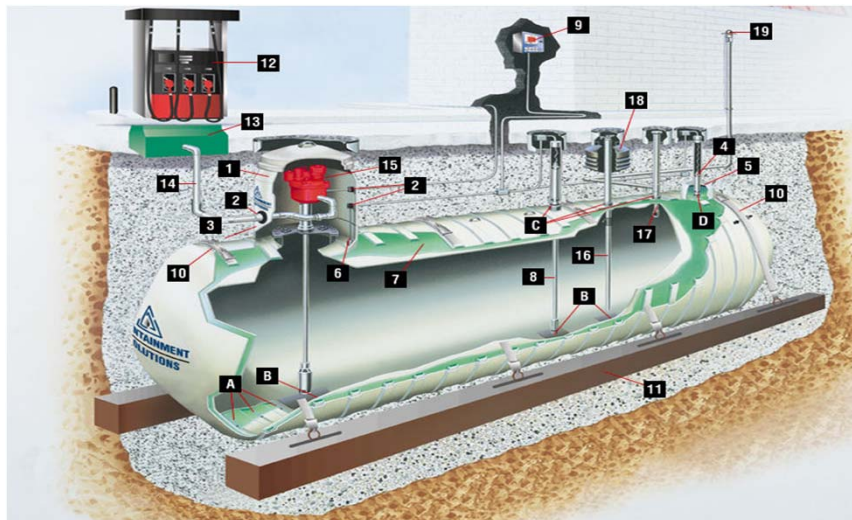
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Emergency Plan Under the Storage Tank Systems for Petroleum Products and Allied Petroleum Products Regulations



Conference

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Environment Canada**

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Quebec City, Quebec**

Outline

- **Legal Framework**
- **Regulatory Objectives**
- **Health Risks – Scenarios**
- **Application of the Regulations**
- **Regulatory Overview**
- **Emergency Plan Requirements**
- **Best Management Practices**
- **Available Resources**
- **Question Period**



Canadian Environmental Protection Act, 1999 [CEPA 1999]

- Seeks to *protect the environment ... and human health, from the risk of any adverse effects of the ... release of toxic substances*
- This is why certain regulations made under CEPA 1999 cover both aspects
- This also explains why Health Canada and Environment Canada have joint administration of certain regulations



Regulatory Objectives

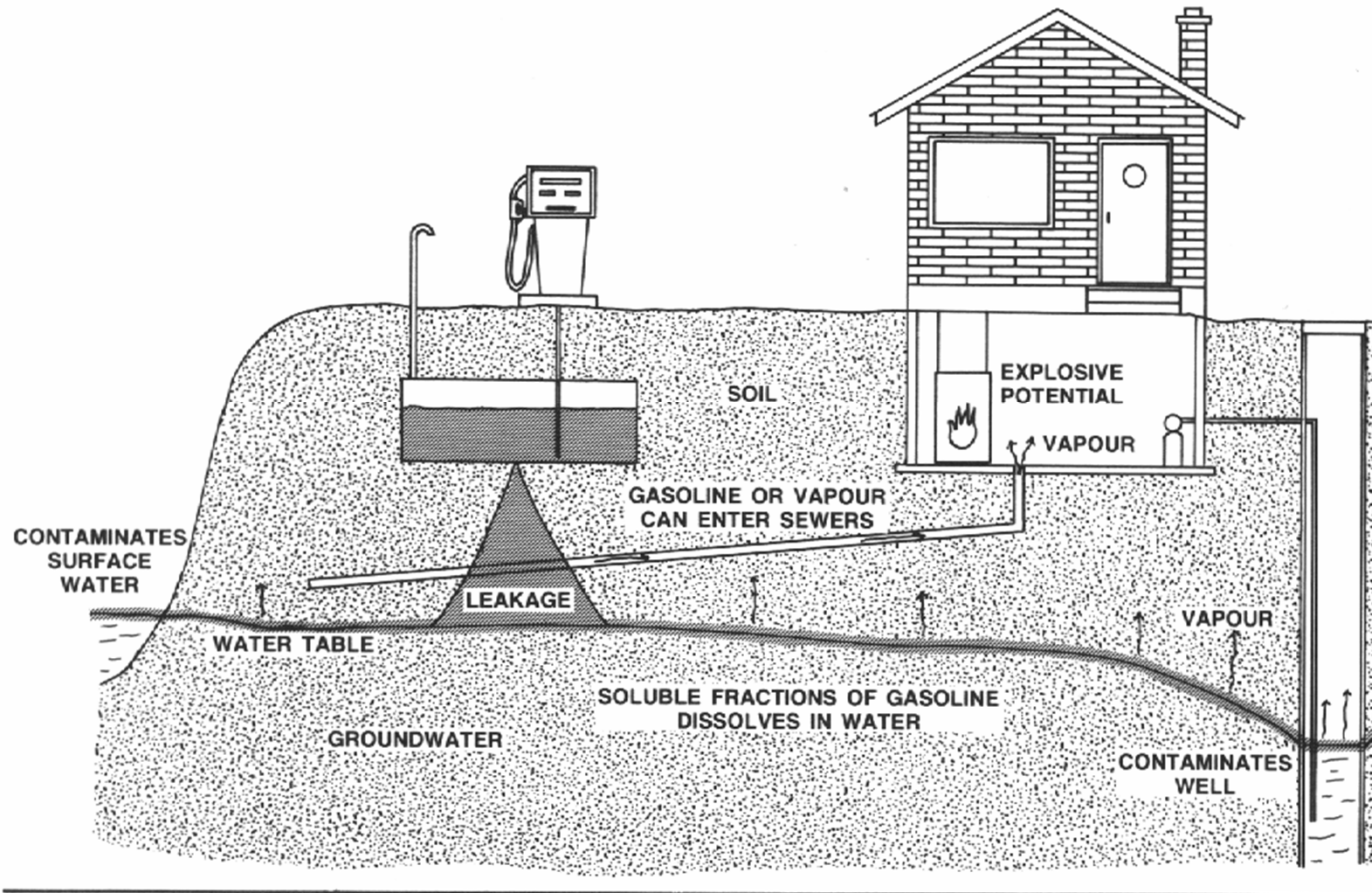
**Reduce the number of releases
entering the environment
Minimize the consequences
of releases**

SOIL AND GROUNDWATER
PROTECTION



Health Risks – Underground Leak

LEAKING UNDERGROUND PETROLEUM STORAGE TANKS TANK LEAKAGE CAN CAUSE A NUMBER OF PROBLEMS



Health Risks - Spill



Application of the Regulations

Aboveground and underground storage tank systems containing petroleum products or allied petroleum products that are:

- **Owned or operated by:**
 - a) Federal departments, boards or agencies**
 - b) Crown corporations**
 - c) Federal works or undertakings that are port authorities, airports or railways**

OR

- **Located on:**
 - a) Federal land**
 - b) Aboriginal land**



Application of the Regulations (continued)

- Aboriginal land
 - Defined in CEPA 1999:
 - Lands that are subject to the *Indian Act*
 - Lands subject to a claim agreement where title remains with Her Majesty in right of Canada
 - In Quebec, only Cree, Naskapi and Inuit lands do not constitute aboriginal lands. Consequently, most storage tank systems located on these lands are not subject to the Regulations.

Regulatory Overview

- **Withdraw leaking systems from service**
- **Remove 'high risk' systems from service**
- **Mandatory compliance with technical requirements for 'new' systems**
- **Leak detection for components without secondary containment**
- **Identification with EC**



Regulatory Overview (continued)

- **Containment of spills at product transfer areas**
- **Transfer of product to ID'd systems only**
- **Emergency plans**
- **Spill reporting**
- **Operation and maintenance requirements**
- **Record keeping**



Section 30: Emergency Plan Development

- Subsection 30(1) : Factors to consider
- Subsection 30(2) : Contents of the plan
- Subsection 30(3) : Implementation schedule



Subs. 30(1) : Factors to Consider

Paragraph 30(1)a)

The properties and characteristics of each ... product ... stored in each tank of the system and the maximum expected quantity of the ... product ... to be stored in the system at any time during any calendar year

- Up-to-date material safety data sheets: essential!



Subs. 30(1) : Factors to Consider (cont.)

Paragraph 30(1)b)

The characteristics of the place where the system is located and of the surrounding area that may increase the risk of harm to the environment or of danger to human life or health

- Knowing your site is not good enough, you must also know the surrounding area!



Subs. 30(2) : Contents of the Plan

- Paragraph 30(2)a) : Description of the factors
- Paragraph 30(2)b) : Measures to be used
- Paragraph 30(2)c) : Roles and responsibilities
- Paragraph 30(2)d) : Training
- Paragraph 30(2)e) : Equipement
- Paragraph 30(2)f) : Notifying the public



Subs. 30(3) : Implementation Schedule

« ready to be implemented »

- Developed
- Tested

Paragraph 30(3)a)

For systems installed before June 12th, 2008, the emergency plan must be implemented no later than June 13th, 2010.

Paragraph 30(3)b)

For systems installed after June 12th, 2008, the emergency plan must be implemented before the first transfer of product into any tank of the storage tank system.



Section 31 : Plan Location

- Subsection 31(1) : updates and accessibility
 - Frequency not stipulated
 - At least one copy
 - Readily accessible to external individuals as well
 - A second copy is required only if
 - Place where the system is located = a “place of work” under its usual meaning
- Subsection 31(2) : notice to the Minister
 - Civic address of every copy (paper) and computer terminal (electronic)
 - « Minister » : Regional Director, EED



Section 32 : Existing Plan

- Subsection 32(1) : existing plan meets requirements
 - Plan prepared on a voluntary basis
 - Plan prepared for another level of government
 - Provincial
 - Municipal
 - Plan required by federal legislation
 - CEPA 1999 (e.g., EER, PPMER, MMER)
- Subsection 32(2) : existing plan does not meet requirements
 - Existing plan may be amended
 - A new plan can be developed from scratch



Best Management Practices

- Assess needs and alternatives
- Acknowledge the risks inherent to petroleum products
- Maximize passive secondary containment
- Know and understand your system
- Supervise deliveries
- Demand trained and certified delivery staff
- Update and test (drill) your plan regularly
- Have a comprehensive and realistic recovery plan
- Specify a maximum volume of product in the delivery vehicle



Available Resources

EC's web site on petroleum products and allied petroleum product storage tank systems - <http://www.ec.gc.ca/rs-st/>

- **« Tank Tips » Technical Bulletins**

- Bulletin #2 : Application
- Bulletin #4 : New Systems
- Bulletin #5 : Suspected Leak
- Bulletin #7 : Emergency Plan

- **Frequently Asked Questions**

- How are the federal regulations different from provincial and territorial storage tank regulations?
- Who is responsible for complying with the regulations?



Available Resources (continued)

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Questions?



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