Environmental Guidelines

318-8

Management of Petroleum Storage Tanks

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ENVIRONMENTAL GUIDELINES (EG) – MANAGEMENT OF PETROLEUM STORAGE TANKS

PRIMARY GOALS

To avoid the contamination of the environment and negative ecological impacts by preventing leaks, discharges or spills of hydrocarbons (gasoline, diesel, heating oil, waste/used oil).

To ensure adequate containment (during refuelling, storage, and transfer) of the hydrocarbons in petroleum storage tanks owned by the Correctional Service of Canada (CSC).

To reduce the releases of volatile organic compounds (VOC) from petroleum storage tanks that contribute to the production of ground-level ozone (smog).

SPECIFIC OBJECTIVES

To demonstrate that CSC registers and manages petroleum storage tanks at its facilities in a way that complies with the applicable acts, federal regulations, guidelines, norms and codes.

To ensure that petroleum storage tanks under CSC's charge are operated, maintained and monitored in accordance with standardized preventive practices.

To reduce the financial and environmental risks (soil, groundwater and surface water contamination) related to the operation of petroleum storage tanks.

To keep monitoring an up-to-date official registry of the petroleum storage tanks owned by CSC.

AUTHORITIES

Correctional Service of Canada Commissioner's Directive 318 – Environmental Programs.

Canadian Environmental Protection Act, 1999.

Registration of Storage Tank Systems for Petroleum Products and Allied Petroleum Products on Federal Lands Regulations, 1997.

Technical Guidelines for Aboveground Storage Tank Systems Containing Petroleum Products, Environment Canada, 1996.



Technical Guidelines for Underground Storage Tank Systems Containing Petroleum Products and Allied Petroleum Products, Environment Canada, 1995.

Environmental Code of Practice for Aboveground Storage Tank Systems Containing Petroleum Products. CCME, August 1994.

Environmental Code of Practice for Underground Storage Tank Systems Containing Petroleum Products and Allied Petroleum Products, CCME, March 1993.

Fisheries Act, R.S.C. 1985, c. F-14.

National Fire Code of Canada (NFC) 1995, Part 4.

CAN/CSA-B139-M91 Installation Code for Oil Burning Equipment.

SECTION 1 – DEFINITIONS, RESPONSIBILITIES AND SCOPE

DEFINITIONS

The following definitions apply to these Environmental Guidelines. For additional definitions, refer to the abovementioned Regulations and Codes of Practice.

Cathodic protection – A method of preventing or reducing corrosion of a metal surface by making the metal a cathode, using an impressed direct current or attaching sacrificial anodes.

Dispenser sump (dikes) – A container, located underneath or near a dispenser or self-contained suction pump, that collects or contains leaks (raised part of dike floor).

Internal lining - A coating of a non-corrodible material bonded firmly to the interior surface of the tank and resistant to the petroleum products or allied petroleum products stored.

Leak detection - A device or a method that is capable of detecting leaks in storage tanks and piping with a probability of detection of 0.95 and a probability of false alarm of 0.05.

- a. Level 1 detection: Device or method that is capable of detecting a leak of 0.38L/h.
- b. Level 2 detection: Device or method that is capable of detecting a leak of 0.76L/h.
- c. Level 3 detection: Device or method used in pressure piping that operates whenever the submersible pump starts up, and that is capable of detecting a leak of 12L/h.
- d. Level 4 detection: Device or method that is capable of detecting a leak:
 - i. before the monitoring sump or interstitial space fills up to 50% of its capacity by volume; or
 - ii. before 600 litres has leaked, whichever comes first.

Motive fuels – Any fuel that powers a vehicle (gasoline, diesel, ethanol, etc.).

Overfill-protection device - An electrical or mechanical device that is installed in an underground storage tank, fill tube, or vent and helps prevent a storage tank from being overfilled.

Petroleum product - A single product or mixture of at least 70% hydrocarbons, refined from crude oil, with or without additives, that is used, or could be used, as a fuel, lubricant, or power transmitter. Without restricting the foregoing, it includes such products as gasoline, diesel fuel, aviation fuel, kerosene, naphtha, lubricating oil, fuel oil, and engine oil (new or used), and excludes propane, paints and solvents.



- Registered tank Any underground storage tank for petroleum or allied products that have a capacity of more than 230 litres, as well as any outside aboveground storage tank system for petroleum products having a single or total capacity of more than 2,500 litres.
- Secondary containment Containment that prevents leaks from the primary storage tank system from reaching outside the containment area. It includes double wall underground storage tanks and piping, and liners.
- Spill containment device A container fitted to the inlet of a storage tank or to the suction coupling of a used oil storage tank that helps prevent spills from entering the environment.
- VOC recovery system (phase I) Equipment used to recover motive fuel vapours that escape between the fuel delivery trucks and the storage tanks.
- **VOC recovery system (phase II)** Equipment used to recover motive fuel vapours that escape when refuelling motor vehicles.

Volatile organic compounds (VOC) – Gases that contribute to the production of ground-level ozone.

RESPONSIBILITIES

The Institutional Head, his or her Assistants and the Corcan Operations Managers are accountable to ensure compliance with these Environmental Guidelines.

The Chief, Plant Maintenance (CPM) will normally be the person responsible for managing and monitoring the implementation of these Environmental Guidelines.

SCOPE

All CSC facilities that manage petroleum storage tanks are subject to these Environmental Guidelines.

<u>SECTION 2 – GENERAL REQUIREMENTS</u>

- 1. An institutional inventory of all on-site storage tanks containing petroleum products will be kept up to date at all times and placed in the appropriate file of the institution's Environmental Management System (EMS).
- 2. Copies of documents that are essential to the management of the institution's petroleum storage tanks (e.g. registrations, reports of leaks/spills, etc.) must be sent to the CSC's Regional Environmental Officer (REO) for information and future use.

SECTION 3 – SPECIFIC REQUIREMENTS

STORAGE TANK REGISTRATION

- 1. All underground storage tanks for petroleum products with a capacity of more than 230 litres, as well as aboveground storage tanks with a capacity of more than 2,500 litres are regulated and therefore must be registered with CSC National Headquarters (NHQ), which serves as the "appropriate federal department" (AFD). To this effect, an official CSC form [refer to Annex A] must be completed, signed, and dated for each registered tank.
- 2. The custodian of a petroleum storage tank must register it within 60 days after the installation is completed, or within 60 days of the tank being filled for the first time, whichever comes first. For compliance purposes, NHQ must be advised of all changes that pertain to the information requested in the registration form, and be notified within 60 days of a tank replacement, modification, or withdrawal from service.

DESIGN AND INSTALLATION

- 3. All work carried out on storage tank systems containing petroleum products (installation, tests, upgrades, dismantling) must be carried out by contractors who are qualified and accredited for petroleum equipment installation.
- 4. The design, operation, and maintenance of tanks must meet the following Technical Guidelines and Codes of Practice:
 - a. Technical Guidelines for Underground Storage Tank Systems Containing Petroleum Products and Allied Petroleum Products, Environment Canada, 1995;
 - b. Technical Guidelines for Aboveground Storage Tank Systems Containing Petroleum Products, Environment Canada, 1996;
 - c. Environmental Code of Practice for Underground Storage Tank Systems Containing Petroleum Products and Allied Petroleum Products, CCME, March 1993;
 - d. Environmental Code of Practice for Aboveground Storage Tank Systems Containing Petroleum Products, CCME, August 1994.

Note: The principle requirements for the design and installation of petroleum storage tanks are summarized in Annexes B and C.

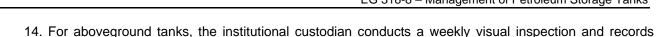
5. All new under and aboveground motive fuel storage tanks as well as all existing under and aboveground motive fuel storage tanks with a capacity of 2,500 litres or more located in the Lower Fraser Valley, the Windsor-Quebec City corridor and the Saint John N.B. region, should have (where available) a phase I and phase II volatile organic compound recovery system.

MAINTENANCE PLAN - EQUIPMENT INSPECTION AND INVENTORY CONTROL

- 6. Within institutions, every tank covered under the Regulations will be assigned a custodian, i.e. the person who operates the tank.
- 7. The tank custodian must prepare a formal operation, maintenance, inspection, and testing plan for each tank. The CPM can provide the necessary planning services.
- 8. A leak detection system must be installed and maintained on all regulated tanks.
- 9. A card/key lock pumping station must have signs posted that provide details of operating and spill procedures and emergency telephone numbers.
- 10. The planned frequency and protocol for most pressure, vacuum and other tests on tanks can be based on manufacturers and installers instructions, except that once every two years a professional engineer should be retained to inspect and recertify the integrity of protection systems (e.g. cathodic) of every tank with underground components.
- 11. It is suggested that the Maintenance Management System (MMS) operated by the Chief of Plant Maintenance (CPM) be used to schedule tests of all tanks and record test results.
- 12. Any leaks and any abnormal or unexplained variances that result from the inventory reconciliation must be acted upon immediately and reported to CSC's Regional Environmental Officer (REO).
- 13. For underground tanks, and for aboveground tanks that are connected to underground fuel distribution pipes, the institutional custodian must:
 - a. once weekly take a dipstick measurement of the quantity of water and fuel, respectively, in the tank (this requires special pastes for the dipstick);
 - b. once weekly, simultaneously with the dipstick measurement, take a reading of the amount of fuel pumped from the tank;
 - once weekly calculate the amount of fuel that should be in the tank based on a perpetual inventory
 of fluid transfers in and out (compare the dipstick measurement result with the calculated inventory
 and average the discrepancy between calculated and measured inventory during the last four
 weeks); and

Note: The custodian must immediately investigate suspected leakage if:

- i. the water level at any time exceeds 5 cm (2 inches);
- ii. the 4-week moving average difference between calculated and measured fuel levels exceeds 0.5% of tank capacity.
- d. once monthly inspect monitoring wells and take action if leaked fuel is detected. The CPM can normally provide this service.



Note: If combined with an acceptable statistical inventory reconciliation, inventory control of underground motive fuel storage tanks with a <u>capacity of less than 5000 litres</u> is an acceptable form of leak detection (level 2). Inventory control of underground motive fuel storage tanks with a <u>capacity of greater than 5000 litres</u> is an acceptable form of inventory monitoring, <u>but is not an acceptable form of leak detection</u>.

SECTION 4 – DATA MANAGEMENT AND REPORTING

this as having been done in the appropriate EMS registry.

RECORDS

- 1. Upon request from regional or central authorities, the CPM will submit the following information:
 - a. up-to-date registration information of the petroleum storage tanks;
 - b. where applicable, the inventory control data (records) for the requested period; and
 - c. where applicable, the petroleum product leak or spill reports.
- 2. The documents required by these Environmental Guidelines (registrations, maintenance files, upgrade project briefs, inspection reports, inventory control registry, leak and spill incident reports) need to be kept on site at least five years after the petroleum storage tank has been removed or its operational life has expired.
- 3. Inventory control and reconciliation records must be kept on site in an acceptable manner and format, and maintained for a period of at least two years for examination by the authority having jurisdiction.

REPORTING

4. Any episode involving a major petroleum product leak or spill (that is to say one that had or could have significant environmental impact or that requires the intervention of external expertise and equipment to confine and recover the contaminants) must be written up in an environmental incident report within 24 hours of the event. This report must be given to CSC's Regional Environmental Officer (REO). Where applicable, depending on the nature and severity of the incident, the appropriate CSC authorities will provide a written report to Environment Canada. In cases of major spill, institutional authorities must advise directly by telephone Environment Canada (Environmental Emergencies Division) in their region.

Note: The contact numbers for Environment Canada – Regional Environmental Emergency Divisions are indicated in Annex D of CSC's Environmental Guidelines on Environmental Emergency Plan.

SECTION 5 – REFERENCES

- 1. For more information on managing petroleum storage tanks, please see the Technical Assistance Bulletins (TABs) developed by the Federal Programs Division of Environment Canada. They are available on the infonet at: www.on.ec.gc.ca/pollution/fpd/tabs/intro-e.html. The bulletins are an excellent source of information on managing, operating and maintaining petroleum storage tanks.
- 2. The federal government's tank registration and other requirements are summarized in the compliance promotion bulletins at: http://www.on.ec.gc.ca/pollution/fpd/cpb/3017-e.html.
- 3. Justice Canada infonet site on the Registration of Storage Tank Systems for Petroleum Products and Allied Petroleum Products on Federal Lands or Aboriginal Lands Regulations at: http://laws.justice.gc.ca/en/C-15.31/SOR-97-10/text.html.
- 4. Canadian Council of Ministers of the Environment (CCME) internet site at: http://www.ccme.ca/ccme.

Assistant Commissioner, Corporate Services

Original signed by:

Louise Saint-Laurent

ANNEX A

Petroleum Storage Tank Registration Form *

| Canada Canada TANK REGISTRATION ANOTE: Nurritery 1 to 22 on this form, are in reference to the resignal Registration of Storage. Task Systems for Petroleum Products and Albert Petroleum Products on Femeral Lands or Albertginst Lands Registration (ELLOW registration held a Comment feature and by placing your source over their parts of Albertgins on | | ENREGISTREMENT DES RÉSERVOIRS PÉTROLIERS NOTA: Les numéros 1 à 22 figurant sur ce formulaire, font références au Régiment fichéral sur l'enregistrement des systèmes, de stochage de produits pétroliers et de produits apparentés bar le lerritoire donnéel et les toures autochtones | | | |
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| Z. Address Adresse | | | | | |
| City - Vide | | Province | | Partiti code - Core p | poetal |
| 3. Havine of Operator – Norm de l'exploiter | • | | | Telephone number - | hambro de Willighore |
| 4. Name of Landower - Norm do progreto Correctional Service Canada | pare clu test | en . | | | |
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^{*} Note: This official CSC form is available on the infonet at: http://infonet/forms/forms/1265-02.doc.

ANNEX B

Underground Storage Tank Systems Containing Petroleum Products and Allied Petroleum Products: Principle Requirements of the Technical Guidelines

The following table summarizes the requirements set out in the Technical Guidelines for Underground Storage Tank Systems Containing Petroleum Products and Allied Petroleum Products.

| Type of Petroleum Product Constituent | Motive Fuel Class A Sites * | Motive Fuel Class B Sites * | System Connected to Fuel Oil Burning Equipment | Used Oil | Allied Petroleum Products |
|--|---|---|--|--|--|
| Storage tanks (general construction) | ULC approved single or double wall steel or fibreglass reinforced plastic | ULC approved single or double wall steel or fibreglass reinforced plastic | ULC approved single or double wall steel or fibreglass reinforced plastic | ULC approved single or double wall steel or fibreglass reinforced plastic | ULC approved single or double wall steel or fibreglass reinforced plastic if compatible with the liquid to be stored ⁽¹⁾ |
| Secondary containment | Required for tanks and piping | Required for piping through which the product runs ⁽²⁾ | Required for tanks and piping | Required for tanks and fill tubes | Required for tanks and piping |
| Corrosion protection Overfill protection device | Required for steel tanks and piping Required | Required for steel tanks and piping Required | Required for steel tanks and piping Required (or vent alarm) | Required for steel tanks and piping Not required | Required for steel tanks and piping Required |
| Fill tube spill containment device | Required on fill pipe | Required on fill pipe | Required on fill pipe when the pipe is at ground level | Required for removal or transfer couplings | Required on fill pipe |
| Dispenser sump Leak detection system | Level 2 or 4 required for the suction tubes, the dispenser sump, and the interstitial | Level 2 or 4 required for the suction tubes, the dispenser sump, and the interstitial | Not required Level 2 or 4 required in the interstitial space Manhole or access to the | Not applicable • Level 2 or 4 required for the interstitial space and remote fill pipes | Level 2 or 4 required for the suction tubes, the dispenser sump, and the |
| | space • Level 4, 2 or 3 for pipes under pressure | space • Level 4, 2 or 3 for pipes under pressure | couplings between the piping and the tank • Supply line and return piping must slope toward the tank | pipes | interstitial space Level 4, 2 or 3 for pipes under pressure |

⁽¹⁾ The appropriate federal department may require additional equipment if justified.

Note: For more information, consult the *Environmental Code of Practice for Underground Storage Tank Systems Containing Petroleum Products and Allied Petroleum Products*, CCME, March 1993.

⁽²⁾ May not be required for the suction tubes in certain cases.

^{*} For more information on the classification of CSC sites, consult Annex D.

ANNEX C

Aboveground Storage Tank Systems Containing Petroleum Products: Principle Requirements of the Technical Guidelines

The following table summarizes the requirements set out in the Technical Guidelines for Aboveground Storage Tank Systems Containing Petroleum Products.

| Type of Tank | Prefabricated Storage Systems | Storage Tanks Built on Site |
|---|---|---|
| Component | | |
| Storage tank (general characteristics) | ULC approved single or double wall steel | Double or single wall steel that meets API 650 standard |
| Secondary containment | | |
| For the tank | Required for storage system above 4,000 L of capacity | Required |
| For the piping | Required for underground piping unless its diameter is greater than 75 mm (piping with a diameter greater than 75 mm must undergo precision testing every two years as of their 5 th year of use) | Required for underground piping unless its diameter is greater than 75 mm (piping with a diameter greater than 75 mm must undergo precision testing every two years as of their 5 th year of use) |
| Corrosion protection | Must be coated with rust-resistant material | Must be coated with rust-resistant material |
| Overfill protection device | Required | Required |
| Spill containment device | Required on the fill pipe and the dispenser sump | Required on the fill pipe and the dispenser sump |
| Dispenser sump | Required for dispensers of motive fuel | Required for dispensers of motive fuel |
| Leak detection system | Interstitial space within the secondary containment must be monitored Leak detection within the interstitial space of the secondary containment, vapour and groundwater monitoring wells, or leak detection systems on the piping Level 2 or 4 leak detection system for the motive fuel dispenser sump | Interstitial space within the secondary containment must be monitored Leak detection within the interstitial space of the secondary containment, vapour and groundwater monitoring wells, or leak detection systems on the piping Level 2 or 4 leak detection system for the motive fuel dispenser sump |

Note: For more information, please consult the *Environmental Code of Practice for Aboveground Storage Tank Systems Containing Petroleum Products*, CCME, August 1994.



Classification of CSC Sites with Underground* Motive Fuel Storage Tank Systems

| Region | Institution | Institution Number | Site Classification |
|----------|--------------------|--------------------|---------------------|
| ATLANTIC | Springhill | 210 | A |
| | Dorchester | 220 | A |
| | Westmorland | 221 | A |
| | Atlantic | 231 | A |
| | Nova | 250 | A |
| | MSF | 312 | Α |
| | FTC | 320 | Α |
| | Donnacona | 321 | В |
| | Joliette | 325 | A |
| | Leclerc | 330 | A |
| | Archambault | 341 | Α |
| QUEBEC | SADP | 342 | A |
| | RRC | 343 | A |
| | Drummond | 345 | В |
| | Cowansville | 350 | A |
| | La Macaza | 352 | A |
| | Port-Cartier | 368 | A |
| | Kingston | 416 | A |
| | Millhaven | 421 | A |
| | Fenbrook | 422 | A |
| | Bath | 423 | A |
| | Collins Bay | 440 | A |
| ONTARIO | Frontenac | 441 | A |
| ONTARIO | Beaver Creek | 443 | A |
| | Joyceville | 450 | A |
| | Pittsburgh | 451 | A |
| | Grand Valley | 465 | A |
| | Warkworth | 466 | A |
| | RPC | 504 | В |
| | Stony Mountain | 510 | A A |
| | Rockwood | 511 | A |
| | Saskatchewan | 520 | B |
| | Riverbend | 521 | В |
| | Maple Creek | 523 | В |
| PRAIRIES | Drumheller | 530 | В |
| | Grande Cache | 532 | В |
| | Pê Sâkâstêw | 535 | В |
| | Bowden | 537 | В |
| | Edmonton FSW | 538 | A |
| | Edmonton (Max.) | 539 | В |
| | William Head | | |
| | | 820 831 | A A |
| | Matsqui RHC | 832 | A |
| | | | |
| PACIFIC | Mountain | 833 | A |
| PACIFIC | Sumas | 835 | A |
| | Kent Elbow Lake | 836 847 | A A |
| | | | |
| | Ferndale | 848 | A |
| | Mission | 849 | A |

^{*} **Note**: Class A sites are considered more sensitive than class B sites due to the potential impacts of underground motive fuel storage tanks on the environment, on health or safety.