

Part 1 - General

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| 1.1 RELATED REQUIRMENTS | .1 | Section 01 10 10 - General Instructions |
| | .2 | Section 01 35 43 - Environmental Protection |
| | .3 | Section 01 77 00 - Closeout Procedures |
| 1.2 REFERENCES | .1 | Canadian Federal Legislation |
| | .1 | Canadian Environmental Protection Act (CEPA), 1999, - Storage Tank Systems for Petroleum Products and Allied Petroleum Products Regulations, SOR/2008-197, |
| | .2 | CSA B139-Series 15, Installation Code for Oil-Burning Equipment, 2015, |
| | .3 | Canadian Council of the Ministers of Environment - Environmental Code of Practice for Aboveground and Underground Storage Tank Systems Containing Petroleum and Allied Petroleum Products, 2003 (CCME) |
| | .4 | National Fire Code of Canada 2015. |
| | .2 | New Brunswick |
| | .1 | NB Regulation 87-97 "Petroleum Product Storage and Handling Regulation - Clean Environment Act". |
| | .2 | New Brunswick Construction Standards for Installation and Removal of Petroleum Storage Systems. |
| 1.3 ACTION AND INFORMATIONAL SUBMITTALS | .1 | Provide submittals in accordance with Section 01 33 00 - Submittal Procedures and Section 01 77 00 - Closeout Procedures. |
| | .2 | Forward affidavit of destruction of aboveground storage tank to Departmental Representative. |

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| <u>1.4 QUALITY
ASSURANCE</u> | .1 Contractor must be licensed by Province for removal of storage tanks.

.1 License/certificate, title and number must accompany tender document.

.2 Regulatory Requirements: ensure Work is performed in compliance with CEPA SOR 2008-197, including tagging the tank's fill pipe as "Out of Service". |
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| <u>1.5 DELIVERY,
STORAGE AND HANDLING</u> | .1 Waste Management and Disposal:

.1 Separate waste materials for reuse.

.2 Direct waste materials not destined for reuse to provincially approved waste processing sites for alternative disposal. Certificate of approval required for each facility chosen.

.2 Divert metal materials from landfill to metal recycling facility approved by Authority Having Jurisdiction.

.3 Segregate and deliver non-salvageable or non-recyclable materials, including waste liquids and sludges to licensed waste facility. |
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Part 2 - Products

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| <u>2.1 NOT USED</u> | .1 Not Used. |
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Part 3 - Execution

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| <u>3.1 PREPARATION
SAFETY AND SECURITY</u> | .1 Conform to or exceed Federal, Provincial and Territorial codes, local municipal by-laws, by-laws, and codes and regulations of utility authorities having jurisdiction.

.2 Do construction occupational health and safety in accordance with Section 01 35 29.06 - Health and Safety Requirements.

.3 Protection:

.1 Meet safety requirements of Occupational Safety and Health, Canada |
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Labour Code Part II and Regulations for Construction Projects.

- .2 Disconnect or remove source of ignition from vicinity of tank.
- .3 Provide temporary protection for safe movement of personnel and vehicle traffic.
- .4 Cut, braze or weld metal only in monitored areas established to be free of ignitable vapour concentrations.
- .5 Ground and bond metal equipment, including tanks and transfer pipes, before operating equipment or transferring flammable materials.
- .6 Use non-sparking tools and intrinsically safe electrical equipment.
- .7 Smoking is not permitted.

3.2 DRAINING

- .1 Drain and flush piping into tank.
- .2 Remove sludge from tank bottom.
 - .1 Dispose of product and sludge in accordance with local, Provincial and Territorial regulations using waste disposal carrier licensed by Provincial/Territorial Environmental Agency having jurisdiction.
 - .2 Gas free the tanks as per Section 3.5 prior to any removal activities.
 - .3 Monitor and maintain appropriate vapour levels in the tanks until delivery of the tanks to the decommissioning site.

3.3 TANK REMOVAL

- .1 Remove tanks and place in a secure location prior to removal from site.

3.5 VAPOUR REMOVAL

- .1 Purging:
 - .1 Purge vapours to less than 10% of lower explosive limit (LEL).

- .2 Verify with combustible gas metre.
- .3 Provide Departmental Representative with test results.
- .2 Dry Ice Method:
 - .1 Add 1.85 gm of solid carbon dioxide (dry ice) for each 100 litre capacity.
 - .2 Crush and distribute ice evenly over greatest area to secure rapid evaporation. Avoid skin contact.
 - .3 Verify dry ice has vapourized.
- .3 Air Method:
 - .1 Ventilate tank with air using small gas exhauster operated with compressed air or other suitable means.
 - .2 Air to enter opening at one end and to exit opening at other end to quickly remove vapour.
 - .3 Test interior of tank to determine when tank is free of vapour.
- .4 Provide Departmental Representative with copy of test results (SOR 2008-197, Section 44).

3.6 CAPPING

- .1 Plug holes after each tank has been freed of vapours and before tanks are moved from site.
- .2 Leave 3 mm vent hole in one plug to prevent tank from being subjected to excessive pressure differential caused by extreme temperature change.

3.7 SECURING AND REMOVAL FROM SITE

- .1 Check vapour levels prior to transport:
 - .1 Remove vapour if required.
- .2 Dispose of tank in accordance with local, Provincial, Federal or Territorial regulations.
- .3 Truck removal:
 - .1 Secure tank on truck for transport to

disposal site.

- .2 Cut suitable openings in tank sides to render tank unusable.
- .3 Ensure 3 mm vent hole located at uppermost point on tank.
- .4 Label tank stating "Not for reuse" and "To be disposed".

3.8 WORKMANSHIP
AND DISPOSAL

- .1 Tanks destined for disposal:
 - .1 Dismantle, cut sufficient openings or otherwise render unusable.
 - .2 Forward affidavit of destruction to Departmental Representative as per Section 01 77 00.

END OF SECTION