

## GUIDELINES SUMMARY (use as a guide only - see text for details)

<b>Areas of Application</b>	These guidelines are applicable to new tanks everywhere in Canada, and to existing tanks in the Lower Fraser Valley, the Windsor-Quebec City Corridor, and the Saint John, New Brunswick area of the Southern Atlantic Region.			
<b>Effective Date</b>	<ul style="list-style-type: none"> <li>● New tanks: 1 year after the publication of these guidelines by the CCME.</li> <li>● Existing fixed roof tanks: when degassed for scheduled maintenance or by December 31, 2004, whichever is earlier.</li> <li>● Existing floating roof tanks: when seals are worn or by December 31, 2004, whichever is later.</li> <li>● Existing vapour control and balancing systems: by December 31, 2004.</li> <li>● Tanks subjected to these guidelines shall comply with the Inspections and Record Keeping sections: one year after the publication of these guidelines by the CCME.</li> </ul>			
<b>Submerged Fill Pipe</b>	All tanks with capacities > 4 m <sup>3</sup> storing a liquid with vapour pressure ≥ 10 kPa shall have a submerged fill pipe.			
<b>Pressure-vacuum Vent</b>	<ul style="list-style-type: none"> <li>● Vertical tanks with capacities &gt; 4 m<sup>3</sup> but diameters &lt; 4 m storing a liquid with vapour pressure ≥ 10 kPa shall have a pressure-vacuum vent.</li> <li>● Non-vertical tanks with capacities &gt; 4 m<sup>3</sup> but &lt; 75 m<sup>3</sup> storing a liquid with vapour pressure ≥ 10 kPa shall have a pressure-vacuum vent.</li> </ul>			
<b>Technology</b>	Internal Floating Roof	or External Floating Roof	or Vapour Control System	or Vapour Balancing System
<b>Requirements</b>				
<b>Vertical Tanks</b> Diameter ≥ 4.0 but < 9.0 m Vapour Pressure ≥ 10 but < 76 kPa	Yes	Yes	Yes	Yes
<b>Vertical Tanks</b> Diameter ≥ 9.0 m Vapour Pressure ≥ 10 but < 76 kPa	Yes	Yes	Yes	No
<b>Non-vertical Tanks</b> Capacity ≥ 75 but < 500 m <sup>3</sup> Vapour Pressure ≥ 10 but < 76 kPa	n/a	n/a	Yes	Yes
<b>Non-vertical Tanks</b> Capacity ≥ 500 m <sup>3</sup> Vapour Pressure ≥ 10 but < 76 kPa	n/a	n/a	Yes	No
<b>All Tanks</b> Capacity ≥ 75 m <sup>3</sup> Vapour Pressure ≥ 76 kPa	No	No	Yes	No
<b>Specifications</b>	Primary seal. Secondary seal (only with vapour primary seal). Gaps. Covers.	Primary seal (liquid or shoe). Secondary seal. Gaps. Covers.	Vapour control efficiency ≥ 95% by weight.	Vapour balancing efficiency ≥ 90% by weight for the working losses.
<b>Inspections</b>	Once every 10 years and visual annually, or LFL measurements.	Visual annually. Primary seal once every five years, and secondary seal annually.	Annually.	Annually.
<b>Record Keeping</b>	<ul style="list-style-type: none"> <li>● Tank/system construction and modification data for the life of the tank/system.</li> <li>● Inspection data for the last 10 years.</li> <li>● Tank throughput by liquid type and vapour pressure for the last three years.</li> </ul>			