

**NOTE OF CHANGES as at November 2013**

*Amendments noted are to the Fire Protection Guidelines Rev 00 date March 05 '09.*

*The revised Guidelines, Nov 2013, identifies amendments by an arrow (  ) in the left margin.*

**1. General**

- Change (#1.1): All materials utilized shall be Underwriters Laboratories and Underwriters Laboratories of Canada (UL & ULC) listed and approved.
- Addition: The preferred manufacturers for fire water backflow preventers are Cold, Ames, Conbraco and Watts.

**2. Sprinkler System**

- Addition (Table F): Pipe material for over 2" inside sprinkler water to be Sch10, thin wall.

**New Section: Standpipes**

- Addition: Standpipes installed in new construction, and in retrofits where possible, must include a tamper, check, flow and test drain valve.

**New Section: Fire Pumps**

- Addition: Horizontal fire pumps must be installed in all new construction as opposed to vertical fire pumps.

## Fire Protection Guidelines


	<b>C</b>	<b>NC</b>	<b>NA</b>
1.0 General	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.0 Sprinkler System	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.0 Standpipes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.0 Fire Pumps	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Mechanical (Sprinkler) Consultant's Signature: \_\_\_\_\_

Mechanical (Sprinkler) Consultant's Name: \_\_\_\_\_

## 1. General

- 1.1. All materials utilized shall be Underwriters Laboratories and Underwriters Laboratories of Canada (UL & ULC) listed and approved.
- 1.2. All materials installed shall adhere to the manufacturer's installation guidelines.
- 1.3. Materials used shall be listed and approved for such application.
- 1.4. All sprinkler system components are to be interfaced with the Fire Alarm System.
- 1.5. Preferred Manufacturers



Fire Water Backflow Preventers	Cold, Ames, Conbraco, Watts
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## 2. Sprinkler System

- 2.1. Design of sprinkler systems shall be in accordance with current NFPA requirements and the following University requirements.
- 2.2. Dalhousie requires a water sprinkler suppression system in all areas except as noted in 2.3 and 2.4.
- 2.3. In specialized areas, including but not limited to server rooms, art galleries, and libraries a pre-action design is preferred. Coordinate with Dalhousie University for other options available.
- 2.4. Kitchens shall have a dedicated suppression system specially designed for the specific area.
- 2.5. Antifreeze loops will only be accepted where it can be demonstrated that other options such as installing a dry pipe system or heating the area would be prohibitively expensive.
- 2.6. A building sprinkler riser is required with supervised isolations valves, check valve, and flow switch and a drain valve installed on each floor for ease of floor isolation. Associated with this sprinkler riser is a drain line adjacent to the riser capable of handling the full flow.
- 2.7. A complete set of as-built drawings shall be compiled and submitted, showing locations of all sprinkler lines and devices.

2.8. Pipes and fittings

<b>Table A (Fire Services)</b>			
<b>Service</b>	<b>Pipe Material</b>	<b>Fittings</b>	<b>Joints</b>
Sprinkler water (interior), 2" and under	Sch-40	Cast Iron	Screwed or Grooved
Sprinkler water (interior), over 2"	Sch-10	Rolled/ Grooved	Mechanical
Fire water buried	Ductile Iron	Ductile Iron	Mechanical Joint

3. Standpipes

3.1. Standpipes installed in new construction, and in retrofits where possible, must include a tamper, check, flow and test drain valve.

4. Fire Pumps

4.1. Horizontal fire pumps must be installed in all new construction as opposed to vertical fire pumps.

**End of Section**