

Requirements for the Drainage of Water from Elevator Pits

ISSUE:

Elevator pits may have traps and/or sumps located inside the elevator pit as an alternate to a sump well located outside the elevator pit. Oil Interceptors may require external installations as space restrictions in elevator shaft may make installation prohibitive.

BACKGROUND:

Changes to the elevator code ASME A17.1-2013/CSA B44-13 Safety Code for Elevators and Escalators, now permit the installation of a sump or pump in the elevator pit. The changes to the elevator code that allow other disciplines access to the elevator pit may support design considerations utilizing the interior of the elevator as well as the exterior of the pit for plumbing equipment such as a sump.

CODE REQUIREMENT: National Plumbing Code of Canada (NPC)

2.4.3.6 Drains serving elevator pits.

- 1) Where a drain is provided in an elevator pit.
 - a) it shall be connected directly to a sump located outside the elevator pit, and
 - b) the drain pipe that connects the sump to the drainage system shall have a backwater valve.

VARIANCE:

This is a variance to Clause 2.4.3.6(1)(a) Division B of the NPC, allowing sumps to be located inside the elevator pit when a drain is provided. This will serve to verify that the installation of drainage systems in elevator pits shall be in accordance with the manufacturer's installation instructions and the requirements in the NPC.

Design and Installation

- NPC and the ASME A17.1-2013/CSA B44-13 both have requirements for the drainage of water from elevator pits.
- When a sump pump and the related equipment is installed in an elevator pit, the installation, repair, testing and replacement of the equipment must be under the direct supervision of an "elevator" certified journeyman as defined in the Apprenticeship Program Regulation. The elevator certified journeyman shall be present at the site at all times to ensure that the certified plumbing journeyman has a safe environment while working in the pit.
- Additional information is provided in STANDATA P-09-01-NPC15.

This variance does not make or imply any assurance or guarantee with respect to life expectancy, durability or performance of equipment or materials. Non-Compliance with the instructions contained in this variance is an offence under the *Safety Codes Act*.

Issue of this STANDATA is authorized by
the Chief Plumbing Administrator

[Original Signed]
Sidney Manning

